OFFICIAL COPY.

[*All Rights Reserved.*]

ANNUAL SUMMARY

OF

BIRTHS, DEATHS, AND CAUSES OF DEATH

IN

LONDON

AND OTHER GREAT TOWNS,

1891.

PUBLISHED BY THE AUTHORITY OF THE REGISTRAR GENERAL OF BIRTHS, DEATHS, AND MARRIAGES IN ENGLAND.

LONDON:
PRINTED FOR HER MAJESTY'S STATIONERY OFFICE,
BY EYRE AND SPOTTISWOODE,
PRINTERS TO THE QUEEN'S MOST EXCELLENT MAJESTY.

And to be purchased, either directly or through any Bookseller, from
EYRE AND SPOTTISWOODE, East Harding Street, Fleet Street, E.C., and
32, Abingdon Street, Westminster, S.W.; or
JOHN MENZIES & Co., 12, Hanover Street, Edinburgh; and
90, West Nile Street, Glasgow; or
HODGES, FIGGIS, & Co., 104, Grafton Street, Dublin.

1892.

Price One Shilling and Sixpence.

REGISTRATION LONDON.*

AREA.—The Area of Registration London is 77,410 acres or 121 square miles, including 2718 acres of tidal water; this is equal to 31,326 hectares, or 313 square kilometres. The length of the streets and roads, as returned in 1882, was more than 1600 miles; and, from that date to the end of 1891, a total length of 163 miles of new streets had been sanctioned. The Area of London being 121 square miles is equal to a square of 11 miles to the side.

ELEVATION.—The population of London resides at a mean elevation of 60 feet (18·2 metres) above approximate mean water at Liverpool; the elevation varying from 1 foot (0·3 metre) in Plumstead Marshes, to 441 feet (134·4 metres) at Hampstead, above approximate mean water at Liverpool.

HOUSES.—At the Census in 1891 there were within this area 553,764 inhabited houses, containing an average of 7·6 persons to a house, a slightly lower proportion than in 1871 and 1881.

ANNUAL RATABLE VALUE. — The Annual Ratable Value of Property within Registration London in 1891, as assessed in accordance with the Valuation (Metropolis) Act, 1869, was 32,943,260*l.*† (For Annual Ratable Value of Greater London in 1881 and in 1891, see Table 7.)

DENSITY (1891).—135 persons to a hectare; 56·5 to an acre; 36,172 to a square mile. (In these calculations no account is taken of tidal water.)

ANNUAL RATE OF INCREASE OF POPULATION PER CENT.	1861–71	1·50
	1871–81	1·61
	1881–91	1·04

1891.

POPULATION (Estimated to the middle of the year.)	Males	1,995,352	PERSONS.	4,221,452
	Females	2,226,100		
MARRIAGES				37,298
PERSONS MARRIED				74,596
ANNUAL RATE OF PERSONS MARRIED PER 1000 OF THE POPULATION				17·7
BIRTHS	Males	68,161	PERSONS.	134,003
	Females	65,842		
ANNUAL RATE OF BIRTHS PER 1000 OF THE POPULATION				31·8
DEATHS	Males	46,359	PERSONS.	90,216
	Females	43,857		
ANNUAL RATE OF MORTALITY PER 1000	Males	23·3	PERSONS.	21·4
	Females	19·8		
EXCESS OF REGISTERED BIRTHS OVER DEATHS				43,787
ESTIMATED INCREASE OF POPULATION				41,636

* Registration London is co-extensive with the Administrative County of London except that the hamlet of Penge is excluded from Registration London, although forming part of the County of London.

† This information is derived from a return of the Gross and Ratable Value of Property in the Metropolis issued by the London County Council.

ANNUAL SUMMARY.

LONDON

AND OTHER GREAT TOWNS,

1891.

General Register Office, Somerset House,
1st March, 1892.

The Great Towns.

The twenty-eight great towns of England and Wales to which this summary relates contained an estimated population of 9,405,108 persons in the middle of 1891. The births registered among this population in the course of the 52 weeks ending on 2nd January 1892 were 305,716, and in the proportion of 32·6 in a calendar year per 1000 persons living, the average rate in the preceding nine years having been 33·9. The deaths registered in the 52 weeks were 210,750, giving an annual rate of 22·5 per 1000, the average having been 21·5 in the nine next preceding years.

The death-rate varied greatly in the different towns, ranging from 18·2 in Brighton, 19·0 in Portsmouth, 19·1 in Derby, and 19·3 in Norwich, to 26·0 in Salford, 26·5 in Manchester, 27·0 in Liverpool, and 27·3 in Preston. These recorded death-rates, however, cannot be justly used for purposes of comparison, until they have been corrected for differences in the age and sex distribution of the population, in the several towns, and such correction cannot be made until the results of the census of 1891 are known.

Particulars of the registered mortality are given in Tables 1 to 4. There were in all only 18 deaths from *small-pox*, of which 8 were recorded in London and the Metropolitan Asylum Hospital ship, 7 in Birmingham, 2 in Liverpool, and 1 in Leeds; *measles*, *scarlet fever*, *fever*, and *diarrhœa* all showed considerable declines; while under *whooping-cough* and *diphtheria* there were slight increases above the averages of the ten preceding years.

The mortality from *measles* was 0·52 per 1000, the average rate in the ten preceding years having been 0·63, but varied from 0·25 in Brighton and in Birmingham, to 1·12 in Huddersfield, 1·15 in Sunderland, 1·37 in Portsmouth, and 1·48 in Blackburn.

The mortality from *scarlet fever*, which had averaged 0·41 per 1000 in 1881–90, in 1891 was only 0·18, but varied from 0·01 in Brighton, 0·06 in Portsmouth and in Birkenhead, and 0·07 in Norwich, to 0·45 in Halifax and 0·66 in Bradford.

A 70492. 575.—3/92. Wt. 23.

The mortality from *diphtheria* rose from an average of 0·19 in 1881–90 to 0·21 in 1891, but varied from 0·00 in Blackburn, 0·02 in Halifax, and 0·04 in Leeds, to 0·32 in London and 0·38 in Salford.

The mortality from *whooping-cough*, which in 1881–90 had averaged 0·61 per 1000, rose in 1891 to 0·64, ranging from 0·17 in Hull and 0·18 in Brighton, to 0·96 in Leicester, 0·99 in Newcastle-upon-Tyne, and 1·03 in Manchester.

The mortality from *continued fevers* fell from 0·26 in 1881–90 to 0·20 in 1891, ranging from 0·10 in Bristol and 0·11 in Brighton, to 0·38 in Salford, 0·39 in Manchester, 0·40 in Sunderland, and 0·47 in Birkenhead.

The mortality from *diarrhœa*, which had averaged 0·89 per 1000 in 1881–90, fell to 0·67 in 1891, but ranged from 0·11 in Huddersfield and 0·12 in Halifax, to 1·18 in Wolverhampton, 1·45 in Leicester, and 1·95 in Preston.

The highest rates from these seven zymotic diseases in the aggregate were 3·41 in Blackburn, 3·45 in Leicester, 3·46 in Salford, and 3·77 in Preston, while the lowest were 1·05 in Brighton and 1·44 in Derby.

The infantile death-rate, or proportion of deaths of infants in the first year of life to 1000 registered births, was 167 in the twenty-eight towns, ranging from 137 in Brighton and 139 in Portsmouth, to 204 in Blackburn, 214 in Leicester, and 227 in Preston.

LONDON.

Marriages.

The marriages in London in the year 1891 numbered 37,298, and the proportion of persons married to the total population was 17·7 per 1,000, this rate being higher than in any year since 1883.

Births.

The births registered in the 52 weeks numbered 134,003, being in the proportion of 31·8 annually to 1000 of the estimated population. This was a considerable rise from the rate in the immediately preceding year, which had been 30·8; but with this exception the rate in 1891 was the lowest as yet recorded. The natural increment, or excess of births over deaths, was 43,787, the average increment in the preceding five years having been 50,009.

Deaths.

The deaths registered in the 52 weeks numbered 90,216, and corresponded to an annual rate of 21·4 per 1000 living. The rate in the immediately preceding year had also been 21·4, but with this exception the rate in 1891 was higher than in any year since 1882. (Table 9.)

Among the 90,216 deaths were 1549 of persons who died outside the limits of Registration London in certain institutions for the reception of inhabitants of London. These deaths were doubtlessly properly included; but on the other hand, the deaths of strangers who coming to London for medical advice die there should with equal fitness be excluded. This, however, is only possible in the case of those who die in the wards of the London Hospitals and Infirmaries, owing to the lack of information concerning those strangers who die in private houses. The

strangers who died in the Hospitals and Infirmaries numbered 1456, and, excluding these, the deaths were 88,760, and the death-rate 21·1 per 1000. (Tables G. & H.)

TABLE A.—DIMINUTION OR EXCESS of DEATHS in 1891, compared with Annual Deaths in 1881–90, corrected for increase of Population.

CAUSE OF DEATH.	Diminution in 1891.	Excess in 1891.
Small-pox	585	—
Measles	871	—
Scarlet Fever	805	—
Typhus	27	—
Influenza	—	2,262
Whooping-cough	29	—
Diphtheria	—	262
Simple and Ill-defined Fever	31	—
Enteric Fever	238	—
Diarrhœal Diseases	703	—
Cancer	—	412
Phthisis and Tubercular Diseases	515	—
Premature Birth	—	356
Diseases of Nervous System	43	—
Diseases of Circulatory System	—	1,099
Diseases of Respiratory System (including Croup).	—	4,103
Diseases of Urinary System	—	232
Childbirth and Puerperal Fever	—	—
Accident	—	90
Murder, Manslaughter	12	—
Suicide	—	43
All other Causes	853	—
	4,712	8,859
Balance of Diminution and Excess	—	4,147

Table A. shows in a summary form the amount of life saved and the amount lost in the year, as compared with the preceding decennium, under each of the more important headings in the list of causes.

The net loss in the year amounted to no less than 4147 lives; that is to say, had the death-rate in the year been only equal to the average in the preceding decennium 4147 fewer persons would have died in London than was actually the case.

The excess, as shown in the Table, was under many headings, some of which, as Diphtheria, Cancer, Premature Birth, Diseases of the Circulatory, and of the Urinary Organs, have shown similar excesses for many successive years, and appear to be persistently increasing. But there are others under which the increase is attributable to temporary causes, and among them the most noteworthy is Influenza: for, while more than one half of the whole net increased mortality was registered under this heading, it can scarcely be doubted that the main part of the enormous increase under Diseases of the Respiratory Organs, and some part of that under Diseases of the Circulatory System and other headings, was in reality determined by the same cause as were the deaths directly attributed to Influenza.

That this was the case may be inferred with much confidence from the fact that the increased mortality under these headings, and especially under Diseases of the Organs of Respiration, was synchronous with the outbreak of Influenza, and that similar synchronising increases under these headings have occurred in each previous outbreak.

The outbreak began about the 17th or 18th week in the year, that is about the beginning of May, rose rapidly to a maximum in three weeks, remained practically stationary for another fortnight, and then subsided gradually to a termination in the beginning of July.

The mortality in successive weeks directly attributed to Influenza, as also that from Bronchitis and Pneumonia, is shown in the following Table :—

Table B.—Mortality during the Outbreak of Influenza.

Week of Year.	Ending on	Deaths.			
		Influenza.	Bronchitis.	Pneumonia.	Other Causes.
14	April 11	3	255	150	1312
15	„ 18	9	257	184	1316
16	„ 25	10	240	179	1380
17	May 2	37	280	241	1448
18	„ 9	148	302	230	1389
19	„ 16	266	352	207	1420
20	„ 23	319	337	219	1360
21	„ 30	310	353	189	1485
22	June 6	303	320	176	1390
23	„ 13	249	255	166	1216
24	„ 20	182	248	159	1276
25	„ 27	117	151	113	1157
26	July 4	56	108	103	1096

The outbreak affected all ages, but was most severely felt by persons in the prime of life, and after these by those of advanced age, and least of all by the young. This is shown in the following Table, which gives the excess of mortality per cent. at different age-periods in the second quarter of 1891 above the average mortality in the corresponding period of the five immediately preceding years, from Influenza, Bronchitis, and Pneumonia taken together. The figures have been duly corrected for the growth of population.

Table C.—Increase per Cent. of Mortality from Influenza, Bronchitis, and Pneumonia in April, May, June, in 1891, as compared with 1886-90.

Age-periods.	0—5	5—20	20—40	40—60	60 and upwards.
Increase per cent.	49	160	288	250	221

Only 8 deaths were caused by *small-pox* in the year; this being the sixth successive year in which London had been practically free from this disease; for in the whole six years there were only 55 deaths under this heading, 12 of these being of unvaccinated persons, 18 of vaccinated persons, while concerning the antecedents of the remaining 25 there was no information.

Under *measles* were registered 1807 deaths, or 0·43 per 1000 living, while the average rate in the previous decennium had been 0·64, which would have given 2678 deaths in 1891. The weekly curve of mortality from this disease showed its usual double wave form, with a summer and a winter maximum, but with the exception of four weeks in the winter the rate was considerably lower in each week than it had been in the preceding decennium.

The deaths from *scarlet fever* were 589, or 0·14 per 1000 living, whereas had the rate equalled the average in the preceding decennium the deaths would have been 1,394, the rate having been 0·34 per 1000. This was the eighth successive year in which the mortality from this disease was largely below the previous decennial average.

The deaths ascribed to *diphtheria* numbered 1,361, or 0·32 per 1000 living. The rate had been the same in 1888, and slightly higher in both 1889 and 1890, but with these exceptions the rate was higher than in any year since diphtheria was first distinguished in the returns from scarlet fever, that is in 1859. The excess was not due to any limited outbreak, but was spread over the whole year, the rate having been above the average, with very few exceptions, in every one of the 52 weeks. Part at any rate of the excess may be attributed with much probability to the decrease under the heading Croup, for the deaths under the two headings taken together amounted to 1765, while the decennial average, after due correction for growth of population, had been 1,772, or practically the same.

TABLE D.—DEATHS from DIPHTHERIA in the METROPOLITAN SANITARY AREAS in the FIVE YEARS 1887, 1888, 1889, 1890, and 1891, after Distribution of those occurring in Hospitals.

Sanitary Area.	1887.	1888.	1889.	1890.	1891.	Sanitary Area.	1887.	1888.	1889.	1890.	1891.
Paddington	29	76	42	40	24	Shoreditch	27	32	69	58	65
Kensington	40	91	111	34	28	Bethnal Green	27	52	102	116	61
Hammersmith	44	38	45	49	73	Whitechapel	6	24	34	51	54
Fulham	19	10	12	22	19	St. George-in-the-East	15	15	43	30	19
Chelsea	19	14	24	56	16	Stepney	14	25	47	28	16
St. George Hanover Square	13	46	30	13	20	Mile End Old Town	22	20	53	44	37
Westminster	25	37	28	9	11	Poplar	30	42	64	70	55
St. James Westminster	3	5	2	3	7	St. Saviour Southwark	8	13	12	5	11
Marylebone	14	23	34	27	26	St. George Southwark	12	23	20	14	18
Hampstead	13	16	8	21	13	Newington	27	18	55	32	44
Pancras	62	72	62	132	71	St. Olave Southwark	2	4	1	4	5
Islington	46	50	63	81	158	Bermondsey	16	14	23	19	16
Hackney	40	76	97	67	79	Rotherhithe	6	8	16	8	4
St. Giles	23	11	17	10	12	Lambeth	105	107	156	76	78
St. Martin-in-the-Fields	5	3	2	1	4	Battersea	51	27	33	40	70
Strand	10	3	8	4	5	Wandsworth		65	44	22	36
Holborn	9	5	17	18	9	Camberwell	65	64	70	51	47
Clerkenwell	17	26	24	19	28	Greenwich	37	34	30	47	46
St. Luke's	12	10	13	16	12	Lewisham	11	31	5	15	8
London City	5	11	12	11	13	Woolwich	3	3	6	5	2
						Plumstead	19	24	18	19	9

Table D. shows the number of deaths from diphtheria for each of the last five years in each sanitary area, the deaths in public institutions having been distributed to the areas from which the patients had been admitted.

It appears from this Table that the severe outbreaks which in 1890 had been so destructive in St. Pancras and in Bethnal Green had subsided in 1891, while some other districts, and notably Battersea and Islington, had in their turn become seriously affected.

The deaths from *whooping-cough*, 2,876 in number, were in the proportion of 0·68 per 1,000 living, this rate scarcely differing from the previous decennial average, which had been 0·69.

Only 8 deaths were ascribed to *typhus;* 547 to *enteric fever*, and 42 to *simple or ill-defined forms of continued fever.* This gives a total of 597 for continued fevers in the aggregate; a smaller number, actually as well as relatively to population, than in any earlier year save 1889, when it was 596. The rate per 1000 from these fevers was 0·14 in 1891, while in the preceding ten years it had averaged 0·22.

The deaths registered as due to *diarrhœa* were 2,437, and of these 1,782 were of infants in the first year of life, while 362 more were of children between one and five years of age. The rate was 0·59 per 1,000 living, and, with only four exceptions, lower than in any one of the preceding forty-five years 1846–90. This was doubtlessly in great measure due to the absence of any period of continuous hot weather in the summer months; but it is also probable that some part of the decline was only apparent and due to the increasing use of the term enteritis for cases in which medical men would formerly have been content to give merely the symptom "diarrhœa"; the deaths in 1891 from enteritis having been 758, and mostly of infants and young children, while the annual average in the ten preceding years, duly raised for increase of population, only amounted to 493.

The deaths from *violence* were 3,223, and exceeded the previous decennial average, corrected for growth of population, by 122. The excess was under accident and suicide, while under homicide there was a slight decrease.

The deaths from *accident* have been classified in the Summary (Table 14.) on a new basis, the object being to give more prominence to the cause of the accident than to the nature of the injury inflicted. Unfortunately the causes of death are often so inadequately stated in the certificates given by medical men and by coroners, that the ætiological classification can only be very imperfectly carried out. Thus it appears from the report of the Fire Brigade Committee of the London County Council that 61 lives were lost during the year in fires to which the brigade were summoned; but in only 30 of these 61 cases did the certificates state the facts sufficiently for the death to be attributed to "conflagrations"; the remaining 31 having doubtlessly been returned simply as "burn" or "fracture," or by some other such inadequate term.

Again, as in the last Summary, attention is directed to the fact that nearly a quarter of the deaths from accident, namely, 608 out of 2,723, were deaths of

infants in the first year of life overlain in bed and suffocated; and that an excessive proportion of these deaths occurs on Saturday nights, and is doubtlessly due to the drunkenness of the parents.

The deaths ascribed to accidents with vehicles or horses were 244, and somewhat, but not much, below the decennial average. Probably among the many deaths simply returned as due to "fracture" there were not a few in which the fracture was caused by a carriage accident; but as regards the 244 of which sufficient information was given for their proper classification, the following Table gives particulars as to the kind of vehicle which caused the death, and it will be noted that as usual the chief offenders were the vans and waggons.

TABLE E.

Year.	Description of Vehicle, &c.								Total.
	Horse, &c.	Carriage.	Omnibus.	Tram-car.	Cab.	Cart.	Van, wagon, dray.	Others, and not described.	
1873	13	10	12	17	28	56	79	2	217
1874	28	11	17	14	33	36	67	5	211
1875	11	15	18	9	39	55	82	2	231
1876	13	4	17	12	24	56	84	7	217
1877	16	13	13	4	26	56	97	2	227
1878	17	12	14	10	34	63	84	3	237
1879	16	13	17	18	36	57	74	5	236
1880	12	11	20	17	39	43	76	2	220
1881	13	14	21	23	31	58	88	4	252
1882	12	15	19	23	37	60	100	5	271
1883	6	12	16	25	57	45	57	4	222
1884	12	11	33	18	57	51	74	9	265
1885	12	20	14	11	55	55	89	10	266
1886	10	7	21	9	39	49	111	5	251
1887	13	7	18	19	51	49	85	9	251
1888	5	15	25	9	41	47	91	4	237
1889	15	10	29	12	52	40	83	13	254
1890	3	11	22	18	43	44	109	20	270
1891	9	10	18	12	35	38	111	11	244

The deaths of 67 persons, of whom 38 were infants in their first year, were ascribed to *murder* or *homicide;* while those of 430 were ascribed to *suicide*. Putting aside the deaths of children and young persons under 20 years of age, among whom suicide is uncommon, one in every 124 adults who died in the year died by his or her own hands.

Deaths in Workhouses, Hospitals, and Public Lunatic and Imbecile Asylums.—Of the 90,216 deaths registered in the 52 weeks of 1891, 23,052, or 25·6 per cent. occurred in public institutions. This total per-centage of 25·6 was made up of—

13·8 per cent. in workhouses and workhouse infirmaries.
1·1 „ „ in Metropolitan Asylum Hospitals.
8·9 „ „ in other hospitals.
1·8 „ „ in public lunatic or imbecile asylums.

Thus about 1 in 7 deaths occurred in a workhouse or infirmary, 1 in 93 in a Metropolitan Asylum Hospital, 1 in 11 in some other hospital, and 1 in 56 in a public lunatic or imbecile asylum.

TABLE F.

	1885.	1886.	1887.	1888.	1889.	1890.	1891.
Deaths in Public Institutions - -	18,630	18,109	18,255	18,858	18,869	21,881	23,052
Workhouses and Workhouse Infirmaries* - - -	9,512	9,708	9,285	9,603	9,503	11,263	12,473
Metropolitan Asylum Board Hospitals (in or out of London) - - -	1,248	248	624	683	729	1,019	973
Other Hospitals - - -	6,592	6,769	6,972	7,093	7,054	7,717	8,008
Lunatic and Imbecile Asylums† -	1,278	1,384	1,374	1,479	1,583	1,882	1,598

* Including the Strand Union Workhouse at Edmonton, and the Holborn Union Workhouse at Mitcham.
† Including the City of London, London County, and Metropolitan Lunatic and Imbecile Asylums situated outside Registration London.

It will be seen in the above Table that the deaths in workhouses or workhouse infirmaries both in 1890 and in 1891 far out-numbered those in any of the five preceding years. It must not, however, be inferred that this necessarily implies a large increase in the number of persons receiving indoor relief. The increased proportion of workhouse deaths was due, in great measure if not entirely, to the fact that the occupants of the workhouses consist in the main of persons of those ages upon which the influenza outbreaks of 1890 and 1891 fell with the heaviest hand; the proportion of inmates under 20 years of age in these institutions being much smaller than in the general population. This explanation of the great excess of workhouse mortality is confirmed by an examination of the successive weekly returns, which show that the excess occurred in those weeks in which the outbreaks were most severe.

Mortality in different parts of London.—The distribution of the registered mortality in London is seriously affected by the hospitals and other public institutions. For purposes of fair comparison between one district, or one group of districts, and another, it is necessary to make correction for this disturbing element. The following Table has, therefore, been constructed, in which the deaths in public institutions have been transferred to the districts from which the deceased had been admitted, and certain other corrections have been made as explained in the note to the Table.

TABLE G.—DEATHS BELONGING to the SEVERAL SANITARY AREAS of REGISTRATION LONDON, registered in the 52 WEEKS of 1891.

SANITARY AREAS.	Deaths.	Deaths from Principal Zymotic Diseases.									Deaths of Infants under 1 Year of Age.	Deaths under 1 Year to 1000 Births registered.
		Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric Fever.	Simple and Ill-defined Fever.	Diarrhœa.		
REGISTRATION LONDON	88,760	8	1,802	577	1,329	2,872	8	527	42	2,423	20,782	154
WEST.												
Paddington	2,098	-	5	7	24	67	-	19	-	60	433	147
Kensington	3,123	-	29	15	28	84	-	23	1	89	645	168
Hammersmith	1,951	-	10	10	73	50	-	6	3	72	474	163
Fulham	1,794	-	26	8	19	71	-	6	-	106	579	167
Chelsea	2,005	-	18	8	16	65	-	9	1	59	421	149
St. George Hanover Square	1,338	-	13	6	20	22	-	9	1	33	205	127
Westminster	1,386	-	9	5	11	20	1	9	-	39	237	157
St. James Westminster	495	-	4	5	7	16	-	4	-	12	84	164
NORTH.												
Marylebone	3,413	-	34	22	26	68	-	12	-	87	623	138
Hampstead	846	-	3	7	13	34	-	6	1	12	158	104
Pancras	5,184	-	69	32	71	163	-	28	-	153	1,116	156
Islington	6,326	-	224	50	158	255	1	29	3	159	1,431	151
Hackney	4,099	-	71	29	79	138	2	41	-	139	990	142
CENTRAL.												
St. Giles	1,099	-	44	-	12	29	-	9	1	21	200	175
St. Martin-in-the-Fields	353	-	7	1	4	8	1	-	1	2	44	175
Strand	745	-	11	1	5	13	-	9	-	11	134	213
Holborn	1,023	-	57	5	9	50	-	9	-	14	209	208
Clerkenwell	1,659	-	114	26	28	52	-	13	-	54	377	170
St. Luke's	1,284	-	46	5	12	20	-	6	2	28	305	159
London City	957	-	7	3	13	9	-	4	-	8	104	156
EAST.												
Shoreditch	3,068	-	134	17	65	124	-	19	-	108	804	175
Bethnal Green	3,282	-	100	29	61	127	-	18	1	86	827	165
Whitechapel	1,877	-	36	8	54	36	-	6	2	52	485	158
St. George-in-the-East	1,329	-	33	7	19	15	-	6	-	62	345	177
Stepney	1,446	-	12	5	16	61	-	6	-	43	334	169
Mile End Old Town	2,259	2	32	11	37	47	-	13	1	62	612	149
Poplar	3,522	-	56	26	55	148	1	29	2	72	906	148
SOUTH.												
St. Saviour Southwark	806	-	17	3	11	24	-	3	1	14	173	201
St. George Southwark	1,805	-	39	15	18	72	-	2	1	46	398	184
Newington	2,808	-	31	17	44	115	-	12	1	77	752	179
St. Olave Southwark	352	-	8	5	5	6	-	3	-	8	76	188
Bermondsey	1,955	-	51	24	16	68	-	10	1	41	535	187
Rotherhithe	873	1	8	4	4	27	-	10	1	24	228	156
Lambeth	5,912	-	128	45	78	241	1	30	7	165	1,386	152
Battersea	2,706	-	38	38	70	101	-	20	3	106	766	146
Wandsworth	2,426	-	79	11	36	76	-	10	5	67	531	119
Camberwell	4,411	1	66	30	47	126	-	19	1	107	1,052	143
Greenwich	3,389	4	42	23	46	113	-	50	-	71	767	142
Lewisham (excluding Penge)	1,082	-	25	3	8	28	-	2	1	16	238	127
Woolwich	1,013	-	26	4	2	37	-	2	-	7	213	158
Plumstead	1,431	-	40	2	9	46	1	6	-	24	335	120

NOTE.—In the above Table 1,549 deaths in Hospitals and in other Public Institutions (namely the Strand Union Workhouse at Edmonton, the Holborn Union Workhouse at Mitcham, the Metropolitan Asylum Hospitals, and the City of London, London County, and Metropolitan Lunatic and Imbecile Asylums) situated outside Registration London, have been distributed to the sanitary areas from which the deceased inmates were admitted; while the deaths of 1,456 non-residents who died in Public Institutions inside London have been excluded.

If the figures in this Table be taken as the basis, and the rates calculated afresh, on the assumption that the rates of increase or decrease of population between the censuses of 1881 and 1891 in the five great groups of districts were maintained throughout the latter year, we obtain the following results.

TABLE H.—BIRTH- and DEATH-RATES of Persons *belonging to* LONDON and to its GROUPS of REGISTRATION DISTRICTS, in the 52 weeks of 1891.

	PER 1000 PERSONS LIVING.												
		Deaths from											
	Births.	All Causes.	Principal Zymotic Diseases.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric Fever.	Simple and Ill-Defined Fever.	Diarrhœa.	Deaths under 1 Year to 1000 Births registered.
REGISTRATION LONDON	31·8	21·1	2·28	0·00	0·43	0·14	0·32	0·68	0·00	0·13	0·01	0·57	154
West Districts	27·0	19·5	1·83	–	0·16	0·08	0·27	0·54	0·00	0·12	0·01	0·65	157
North Districts	30·1	20·0	2·23	–	0·40	0·14	0·35	0·66	0·00	0·12	0·00	0·56	146
Central Districts	30·1	27·6	3·04	–	1·11	0·16	0·32	0·70	0·00	0·19	0·02	0·54	177
East Districts	38·1	23·9	2·80	0·00	0·57	0·15	0·44	0·79	0·00	0·14	0·01	0·70	161
South Districts	32·7	20·2	2·15	0·00	0·39	0·15	0·26	0·71	0·00	0·12	0·01	0·51	149

In this Table, 0·00 indicates that the deaths were too few to give a rate of 0·005; when *no death* occurred, – is inserted.

Uncertified Causes of Death.—Of the 90,216 deaths registered in London, the causes of 938, or 1·0 per cent., were not certified either by a registered medical practitioner or by a coroner (Tables 1 and 2); the proportion in the preceding six years having varied from 1·3 to 0·9 per cent. In the twenty-seven large provincial towns in the aggregate the proportion of uncertified deaths was 2·7 per cent., ranging in the individual towns from 0·5 in Plymouth, 0·7 in Portsmouth, 0·8 in Birkenhead, and 0·9 in Sunderland, to 4·1 in Huddersfield, 4·4 in Hull and in Sheffield, 5·1 in Halifax, and 5·2 in Liverpool. Sheffield, Halifax, and Liverpool had also shown excessive proportions in each of the preceding four years.

GREATER LONDON.—The estimated population of Greater London (Table 8), which is co-extensive with the Metropolitan and City Police Districts, was 5,656,909 in the middle of 1891. The mortality in this population was 19·8 per 1000, the rates in the preceding three years having been successively 18·3, 17·3, and 20·1, and the average for the three years 18·6. The mortality differed vastly in the two constituent parts of Greater London, namely, Inner or Registration London and the Outer Ring. In the former it was, as already shown (page 4), 21·4; while in the latter it was only 15·2, scarcely differing from the average of the preceding three years. The death-rate from the principal zymotic diseases was 2·09 per 1000 in Greater London, but while it was 2·30 in Inner London, it was only 1·49 in the Outer Ring; compared with the preceding three years these rates showed a decline of 15 per cent. in Greater London, of 13 per cent. in Inner London, and of 23 per cent. in the Outer Ring. Infant mortality, measured by the proportion of deaths under one year to registered births, was in the ratio of 147 per 1000 in Greater London, against 140, 136, and 157 in the preceding three years. In Registration London the proportion was 154, while in the Outer Ring of suburban districts it was 124.

Edinburgh, Glasgow, and Dublin.—The death-rate in Edinburgh in 1891 was 21·6 per 1000, scarcely differing from that in London, which was 21·4; but the rate in Glasgow was 25·3, and in Dublin 26·5. In Glasgow the mortality appears to have been excessive under most of the chief zymotic headings. (Table 5.)

Health of Foreign Cities. — In Table 5 are given statistics of mortality furnished by the local authorities of the principal European and other Foreign cities, and also of some Colonial cities. Among the Indian cities Madras had the highest death-rate, 52·5, the rates in Bombay and Calcutta being 29·0 and 27·9 respectively. *Small-pox* caused 125 deaths in Bombay, 70 in Madras, and 15 in Calcutta. The mortality from "*fever*" was, as usual, high in these cities. In twenty-two European cities the lowest death-rates were 19·5 in the Hague and in Dresden, and 19·8 in Christiania; while the highest were 29·2 in Breslau, 30·5 in Trieste, and 37·0 in Moscow. The rate was 20·9 in Berlin, 21·6 in Paris, and 24·5 in Vienna, against 21·4 in London. *Small-pox* caused 451 deaths in Vienna, 335 in Brussels, 127 in Prague, and 105 in Moscow. The mortality from *measles* showed excess in Brussels, Amsterdam, Stockholm, Vienna, and Rome; from *scarlet fever*, in Stockholm, Moscow, Prague, and Buda-Pesth; from *diphtheria*, in all the twenty-two European cities except Brussels, Rotterdam, and the Hague; from *whooping-cough*, in Amsterdam; and from "*fever*," in Moscow and in Rome (the fever in the last-named town being mostly of the malarial type). The mortality from *diarrhœal diseases* was especially heavy in Brussels, Moscow, Berlin, Hamburg, Breslau, Munich, Buda-Pesth, and Venice. In Cairo and Alexandria the death-rates were 53·7 and 45·4 respectively; the excess in both towns being largely due to "*fever*" and *diarrhœal diseases*, and, in the case of Cairo, to *measles*. Among the American cities the death-rates ranged from 21·5 in Philadelphia to 26·0 in New York. The mortality from *diphtheria* and *diarrhœal diseases* was excessive in all these cities, and that from *scarlet fever* in New York and Brooklyn, and from "*fever*" in Philadelphia.

CITIES AND BOROUGHS.	Population, Estimated to the middle of 1891.*	Persons to an Acre.	Births.	Deaths.	The Deaths registered in the 52 Weeks include: Deaths of Infants under 1 Year of Age.	Deaths of Persons aged 60 Years and upwards.	Deaths from: Principal Zymotic Diseases.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Fever.	Diarrhœa.	Violence.	Inquest Cases.	Deaths in Public Institutions.	Uncertified Causes of Death.	Mean Temperature.	Rainfall (Inches).	CITIES AND BOROUGHS.
Cols.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.	17.	18.	19.	20.	Cols.
28 Towns	9,405,108	36·3	305716	210750	51055	50616	22671	18	4916	1689	2010	6044	1859	6134	7284	13890	39524	4147	46°2	29·47	28 Towns.
London†	4,221,452	56·5	134003	90216	20682	23504	9675	8	1807	589	1361	2876	597	2437	3223	6644	23052	938	48·4	25·05	London.†
Brighton	115,606	46·0	3033	2102	417	758	121	–	29	1	12	21	13	45	50	83	347	70	47·7	33·34	Brighton.
Portsmouth	169,128	37·1	4803	3029	669	861	401	–	219	10	23	36	35	78	165	178	397	22	46·7	30·95	Portsmouth.
Norwich	101,316	13·6	3219	1950	513	651	179	–	41	7	27	29	20	55	64	139	209	22	–	–	Norwich.
Plymouth	84,464	57·5	2506	1892	446	640	196	–	28	16	6	69	14	63	47	139	158	9	–	–	Plymouth.
Bristol	222,049	61·8	6731	4634	981	1375	433	–	241	37	13	53	23	63	156	287	814	99	44·6	40·42	Bristol.
Wolverhampton	82,799	24·4	2820	1997	535	500	184	–	25	14	4	25	19	97	56	117	312	21	41·7	28·36	Wolverhampton.
Birmingham	429,906	51·2	14653	9503	2506	2225	920	7	106	91	36	280	77	323	381	692	1818	265	–	–	Birmingham.
Leicester	142,581	44·6	4789	3063	1026	690	487	–	84	16	14	135	34	204	93	189	385	75	–	–	Leicester.
Nottingham	212,662	21·4	6344	4216	1070	1120	479	–	107	30	15	123	71	133	130	219	584	92	46·3	25·65	Nottingham.
Derby	94,496	27·4	2886	1796	409	466	136	–	26	9	18	38	12	33	43	121	237	17	–	–	Derby.
Birkenhead	99,597	25·9	3274	2072	484	457	170	–	34	6	11	31	47	41	85	158	231	17	–	–	Birkenhead.
Liverpool	517,116	99·3	17830	13911	3361	2489	1410	2	320	119	63	438	131	337	687	815	2287	726	47·2	31·57	Liverpool.
Bolton	115,253	47·9	3921	2521	648	553	273	–	55	22	11	44	35	106	75	176	241	33	–	–	Bolton.
Manchester	506,469	39·6	17208	13398	3305	2514	1581	–	222	113	120	520	199	407	459	972	2517	234	–	–	Manchester.
Salford	198,717	38·4	7213	5156	1396	978	686	–	130	37	76	184	79	180	168	270	726	177	–	–	Salford.
Oldham	132,010	27·9	4097	3379	787	692	294	–	99	25	18	69	27	56	83	164	357	63	–	–	Oldham.
Blackburn	120,496	17·3	4075	3103	833	636	410	–	178	12	–	59	23	138	93	132	309	100	–	–	Blackburn.
Preston	107,864	26·8	3876	2940	880	652	405	–	85	30	15	32	33	210	69	92	229	83	–	–	Preston.
Huddersfield	95,656	81·1	2323	2196	429	588	229	–	107	29	7	60	16	10	60	71	184	91	–	–	Huddersfield.
Halifax	83,109	22·1	2174	1891	371	509	172	–	43	37	2	60	21	8	38	46	209	97	45·2	36·54	Halifax.
Bradford	216,938	20·1	6216	4800	1126	1088	528	–	81	143	17	141	34	112	108	242	528	106	46·9	27·30	Bradford
Leeds	369,099	17·1	12538	8428	2217	1824	888	1	261	66	16	151	73	320	248	605	866	116	47·0	25·12	Leeds.
Sheffield	325,304	16·6	11878	7753	2014	1663	864	–	173	113	43	220	77	238	200	295	838	342	–	–	Sheffield.
Hull	200,934	25·4	6933	4205	1194	1022	344	–	80	19	14	34	44	153	136	197	463	185	47·9	26·80	Hull.
Sunderland	131,302	43·3	4944	3279	869	741	419	–	151	25	10	43	53	137	102	247	307	31	–	–	Sunderland.
Newcastle	187,502	34·9	6692	4449	1162	912	515	–	131	40	41	185	28	90	174	337	529	81	44·3	22·56	Newcastle.
Cardiff	130,283	17·7	4737	2871	725	538	272	–	53	33	17	88	24	57	151	263	390	35	–	–	Cardiff.

* These estimates are based upon the unrevised numbers enumerated at the Census in April 1891.

† For the purposes of these Tables, London includes the Strand Union Workhouse at Edmonton, the Holborn Union Workhouse at Mitcham, and the Metropolitan Hospitals and Asylums situated outside Registration London. Several of the provincial towns have been similarly corrected by the addition of deaths occurring in Public Institutions situated beyond their limits.

TABLE 2.—28 Towns.—Birth-, and Death-rates, and Analysis of Mortality, in the 52 Weeks of 1891.

In this Table, 0·00 indicates that the deaths were too few to give a rate of 0·005; when *no death* occurred — is inserted.

CITIES AND BOROUGHS.	ANNUAL RATES PER 1000 PERSONS LIVING.														DEATHS under 1 Year to 1000 Births.	ANNUAL RATE of MORTALITY per 1000 living.		PERCENTAGE to Total Deaths.			CITIES AND BOROUGHS.
	BIRTHS in 52 Weeks ending 2nd Jan. 1892.	Total Deaths, 52 or 53 Weeks ending				Deaths from										Aged 1 to 60 Years.	Aged 60 Years and upwards.	Inquest Cases.	Deaths in Public Institutions.	Uncertified Causes of Death.	
		29th Dec. 1888.	28th Dec. 1889.	3rd Jan. 1891.	2nd Jan. 1892.	Principal Zymotic Diseases.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Fever.	Diarrhœa.	Violence.							
Cols.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.	17.	18.	19.	20.	Cols.
28 TOWNS	32·6	20·1	20·3	22·6	22·5	2·42	0·00	0·52	0·18	0·21	0·64	0·20	0·67	0·78	167	12·7	91·3	6·6	18·8	2·0	28 TOWNS.
LONDON*	31·8	19·3	18·3	21·5	21·4	2·30	0·00	0·43	0·14	0·32	0·68	0·14	0·59	0·77	154	12·0	88·9	7·4	25·6	1·0	LONDON.*
BRIGHTON	26·3	17·1	16·1	19·1	18·2	1·05	—	0·25	0·01	0·10	0·18	0·11	0·40	0·43	137	9·0	83·1	3·9	16·5	3·3	BRIGHTON.
PORTSMOUTH	30·1	17·5	16·7	17·9	19·0	2·51	—	1·37	0·06	0·14	0·23	0·22	0·49	0·66	139	10·4	78·5	5·9	13·1	0·7	PORTSMOUTH.
NORWICH	31·9	19·4	17·6	20·1	19·3	1·77	—	0·41	0·07	0·27	0·29	0·20	0·53	0·63	159	8·8	70·9	7·1	10·7	1·1	NORWICH.
PLYMOUTH	29·8	21·3	23·8	21·1	22·5	2·33	—	0·33	0·19	0·07	0·82	0·17	0·75	0·56	178	10·9	82·8	7·3	8·4	0·5	PLYMOUTH.
BRISTOL	30·4	17·6	18·4	20·2	20·9	1·96	—	1·09	0·17	0·06	0·24	0·10	0·30	0·70	146	11·4	88·9	6·2	17·6	2·1	BRISTOL.
WOLVERHAMPTON	34·2	20·9	20·9	22·2	24·2	2·23	—	0·30	0·17	0·05	0·30	0·23	1·18	0·68	190	12·9	94·8	5·9	15·6	1·1	WOLVERHAMPTON.
BIRMINGHAM	34·2	18·9	20·1	22·4	22·2	2·15	0·02	0·25	0·21	0·08	0·65	0·18	0·76	0·89	171	12·2	98·2	7·3	19·1	2·8	BIRMINGHAM.
LEICESTER	33·9	19·7	18·4	19·7	21·7	3·45	—	0·59	0·11	0·10	0·96	0·24	1·45	0·66	214	10·4	81·0	6·2	12·6	2·4	LEICESTER.
NOTTINGHAM	29·9	19·5	19·5	19·2	19·9	2·26	—	0·50	0·14	0·07	0·58	0·33	0·64	0·61	169	10·5	85·2	5·2	13·9	2·2	NOTTINGHAM.
DERBY	30·6	17·3	17·6	20·1	19·1	1·44	—	0·28	0·10	0·19	0·40	0·13	0·34	0·46	142	10·7	87·3	6·7	13·2	1·0	DERBY.
BIRKENHEAD	33·0	18·8	18·9	21·1	20·9	1·71	—	0·34	0·06	0·11	0·31	0·47	0·42	0·86	148	12·4	87·8	7·6	11·1	0·8	BIRKENHEAD.
LIVERPOOL	34·6	23·1	25·9	27·8	27·0	2·73	0·00	0·62	0·23	0·12	0·85	0·25	0·66	1·33	188	17·0	96·8	5·9	16·4	5·2	LIVERPOOL.
BOLTON	34·1	21·8	22·3	26·1	21·9	2·37	—	0·48	0·19	0·10	0·38	0·30	0·92	0·65	165	12·5	93·9	7·0	9·6	1·3	BOLTON.
MANCHESTER	34·1	25·5	26·1	29·7	26·5	3·13	—	0·44	0·22	0·24	1·03	0·39	0·81	0·91	192	16·3	101·7	7·3	18·8	1·7	MANCHESTER.
SALFORD	36·4	24·9	24·7	27·6	26·0	3·46	—	0·66	0·19	0·38	0·93	0·38	0·92	0·85	194	15·2	108·7	5·2	13·9	3·4	SALFORD.
OLDHAM	31·1	22·4	22·8	24·0	25·7	2·23	—	0·75	0·19	0·14	0·52	0·21	0·42	0·63	192	15·6	108·9	4·9	10·6	1·9	OLDHAM.
BLACKBURN	33·9	24·6	26·4	24·4	25·8	3·41	—	1·48	0·10	—	0·49	0·19	1·15	0·77	204	14·8	106·9	4·3	10·0	3·2	BLACKBURN.
PRESTON	36·0	23·6	29·6	27·0	27·3	3·77	—	0·79	0·28	0·14	0·30	0·31	1·95	0·64	227	14·3	106·1	4·1	7·7	2·8	PRESTON.
HUDDERSFIELD	24·4	19·3	19·7	20·0	23·0	2·40	—	1·12	0·30	0·07	0·63	0·17	0·11	0·63	185	13·5	103·2	3·2	8·4	4·1	HUDDERSFIELD.
HALIFAX	26·2	19·3	21·5	22·4	22·8	2·08	—	0·52	0·45	0·02	0·72	0·25	0·12	0·46	169	13·6	98·5	2·5	11·0	5·1	HALIFAX.
BRADFORD	28·7	18·7	21·2	22·8	22·2	2·44	—	0·37	0·66	0·08	0·65	0·16	0·52	0·50	181	13·0	97·4	5·0	11·0	2·2	BRADFORD.
LEEDS	34·1	20·6	22·1	22·7	22·9	2·41	0·00	0·71	0·18	0·04	0·41	0·20	0·87	0·67	177	13·0	92·6	7·2	10·3	1·4	LEEDS.
SHEFFIELD	36·6	21·1	21·5	25·8	23·9	2·66	—	0·53	0·35	0·13	0·68	0·24	0·73	0·62	170	13·7	104·9	3·8	10·8	4·4	SHEFFIELD.
HULL	34·6	17·5	21·7	20·9	21·0	1·72	—	0·40	0·09	0·07	0·17	0·22	0·77	0·68	172	10·9	82·3	4·7	11·0	4·4	HULL.
SUNDERLAND	37·8	18·8	23·9	23·9	25·0	3·20	—	1·15	0·19	0·08	0·33	0·40	1·05	0·78	176	14·0	97·5	7·5	9·4	0·9	SUNDERLAND.
NEWCASTLE	35·8	18·8	22·7	23·1	23·8	2·75	—	0·70	0·21	0·22	0·99	0·15	0·48	0·93	174	13·9	87·7	7·6	11·9	1·8	NEWCASTLE.
CARDIFF	36·5	19·5	18·4	19·5	22·1	2·09	—	0·41	0·25	0·13	0·68	0·18	0·44	1·16	153	13·4	92·2	9·2	13·6	1·2	CARDIFF.

in the Ten Years **1881–90**, and in **1891.**

In this Table 0·00 indicates that the deaths were too few to give a rate of 0·005; when *no death* occurred, – is inserted.

Towns.	All Causes.		Small-pox.		Measles.		Scarlet Fever.		Diphtheria.		Whooping-cough.		Fever.		Diarrhœa.		Deaths under One Year to 1000 Births.		Towns.
	Ten years 1881–90.	1891.	Ten years 1881–90.	1891.	Ten years 1881–90.	1891.	Ten years 1881–90.	1891.	Ten years 1881–90.	1891.	Ten years 1881–90.	1891.	Ten years 1881–90.	1891.	Ten years 1881–90.	1891.	Ten years 1881–90.	1891.	
28 Towns† -	21·6	22·5	0·09	0·00	0·63	0·52	0·41	0·18	0·19	0·21	0·61	0·64	0·26	0·20	0·89	0·67	162	167	**28** Towns.†
London* - -	20·5	21·4	0·14	0·00	0·64	0·43	0·34	0·14	0·26	0·32	0·69	0·68	0·22	0·14	0·74	0·59	152	154	London.*
Brighton - -	18·5	18·2	0·01	–	0·41	0·25	0·26	0·01	0·13	0·10	0·51	0·18	0·18	0·11	0·68	0·40	146	137	Brighton.
Portsmouth -	19·0	19·0	0·01	–	0·44	1·37	0·13	0·06	0·46	0·14	0·37	0·23	0·52	0·22	0·82	0·49	138	139	Portsmouth.
Norwich - -	20·0	19·3	0·00	–	0·40	0·41	0·18	0·07	0·14	0·27	0·40	0·29	0·30	0·20	0·99	0·53	155	159	Norwich.
Plymouth - -	21·4	22·5	0·00	–	0·51	0·33	0·44	0·19	0·17	0·07	0·49	0·82	0·29	0·17	0·58	0·75	159	178	Plymouth.
Bristol - -	19·3	20·9	0·03	–	0·47	1·09	0·35	0·17	0·09	0·06	0·51	0·24	0·17	0·10	0·50	0·30	141	146	Bristol.
Wolverhampton	21·7	24·2	0·02	–	0·52	0·30	0·31	0·17	0·08	0·05	0·46	0·30	0·16	0·23	1·04	1·18	166	190	Wolverhampton.
Birmingham -	20·8	22·2	0·05	0·02	0·53	0·25	0·33	0·21	0·13	0·08	0·63	0·65	0·16	0·18	1·17	0·76	167	171	Birmingham.
Leicester - -	20·6	21·7	–	–	0·37	0·59	0·42	0·11	0·08	0·10	0·41	0·96	0·21	0·24	1·63	1·45	202	214	Leicester.
Nottingham -	21·5	19·9	0·04	–	0·46	0·50	0·46	0·14	0·11	0·07	0·51	0·58	0·34	0·33	1·12	0·64	171	169	Nottingham.
Derby† - - -	18·6	19·1	0·01	–	0·46	0·28	0·22	0·10	0·07	0·19	0·40	0·40	0·28	0·13	0·63	0·34	145	142	Derby.†
Birkenhead -	19·9	20·9	0·02	–	0·57	0·34	0·34	0·06	0·09	0·11	0·49	0·31	0·32	0·47	0·67	0·42	149	148	Birkenhead.
Liverpool - -	26·3	27·0	0·06	0·00	1·01	0·62	0·62	0·23	0·15	0·12	0·71	0·85	0·50	0·25	1·07	0·66	183	188	Liverpool.
Bolton† - -	22·4	21·9	0·02	–	0·85	0·48	0·28	0·19	0·10	0·10	0·61	0·38	0·26	0·30	1·30	0·92	175	165	Bolton.†
Manchester -	26·6	26·5	0·03	–	0·85	0·44	0·48	0·22	0·17	0·24	0·65	1·03	0·28	0·39	1·04	0·81	179	192	Manchester.
Salford - -	24·5	26·0	0·01	–	0·78	0·66	0·62	0·19	0·29	0·38	0·71	0·93	0·42	0·38	1·44	0·92	183	194	Salford.
Oldham - -	23·9	25·7	0·03	–	0·71	0·75	0·41	0·19	0·15	0·14	0·57	0·52	0·21	0·21	0·65	0·42	171	192	Oldham.
Blackburn† -	24·8	25·8	0·02	–	0·95	1·48	0·68	0·10	0·02	–	0·52	0·49	0·43	0·19	1·19	1·15	191	204	Blackburn.†
Preston† - -	26·5	27·3	0·06	–	0·84	0·79	0·42	0·28	0·16	0·14	0·63	0·30	0·49	0·31	2·28	1·95	222	227	Preston.†
Huddersfield† -	20·8	23·0	0·00	–	0·58	1·12	0·21	0·30	0·12	0·07	0·46	0·63	0·16	0·17	0·45	0·11	169	185	Huddersfield.†
Halifax† - -	21·2	22·8	0·00	–	0·39	0·52	0·27	0·45	0·10	0·02	0·23	0·72	0·24	0·25	0·34	0·12	161	169	Halifax.†
Bradford - -	20·4	22·2	0·00	–	0·53	0·37	0·31	0·66	0·05	0·08	0·45	0·65	0·20	0·16	0·84	0·52	165	181	Bradford.
Leeds - - -	22·1	22·9	0·02	0·00	0·47	0·71	0·68	0·18	0·08	0·04	0·51	0·41	0·33	0·20	1·13	0·87	173	177	Leeds.
Sheffield - -	22·0	23·9	0·24	–	0·50	0·53	0·76	0·35	0·08	0·13	0·56	0·68	0·24	0·24	1·09	0·73	171	170	Sheffield.
Hull - - -	21·0	21·0	0·04	–	0·35	0·40	0·81	0·09	0·08	0·07	0·46	0·17	0·28	0·22	1·11	0·77	159	172	Hull.
Sunderland -	22·7	25·0	0·13	–	0·75	1·15	0·56	0·19	0·11	0·08	0·47	0·33	0·35	0·40	1·01	1·05	158	176	Sunderland.
Newcastle - -	22·5	23·8	0·09	–	0·61	0·70	0·41	0·21	0·13	0·22	0·50	0·99	0·32	0·15	0·81	0·48	163	174	Newcastle.
Cardiff† - -	20·7	22·1	0·03	–	0·66	0·41	0·41	0·25	0·20	0·13	0·52	0·68	0·33	0·18	0·93	0·44	165	153	Cardiff.†

* *See* note (†) to Table 1.

† The rates for years prior to 1882 cannot be ascertained for these towns or for the aggregate of the 28 towns; the mean rates for the 9 years 1882–90 have therefore been inserted in the columns for decennial rates.

TABLE 4.—**28 Towns.—Mean Temperature** at **Greenwich,** and **Annual Rate** of **Mortality** in each **Town,** in each **Week** of **1891.**

Number of Week.	Week ending	Mean Temperature at Greenwich. Fahrenheit.	Mean Temperature at Greenwich. Centigrade.	Annual Rate of Mortality per 1000 in Twenty-eight Towns.	London.*	Brighton.	Portsmouth.	Norwich.	Plymouth.	Bristol.	Wolverhampton.	Birmingham.	Leicester.	Nottingham.	Derby.	Birkenhead.	Liverpool.	Bolton.	Manchester.	Salford.	Oldham.	Blackburn.	Preston.	Huddersfield.	Halifax.	Bradford.	Leeds.	Sheffield.	Hull.	Sunderland.	Newcastle.	Cardiff.
	YEAR (52 weeks)	° 48·4	° 9·11	22·5	21·4	18·2	19·0	19·3	22·5	20·9	24·2	22·2	21·7	19·9	19·1	20·9	27·0	21·9	26·5	26·0	25·7	25·8	27·3	23·0	22·8	22·2	22·9	23·9	21·0	25·0	23·8	22·1
	March Qr (13 weeks)	37·6	3·11	24·5	24·0	21·3	21·9	21·2	23·5	25·7	21·3	24·4	23·3	21·5	17·7	25·1	27·4	23·6	28·4	30·6	28·5	29·9	30·3	28·1	29·1	22·1	24·3	23·1	21·0	23·9	22·9	23·0
	June ,, (13 weeks)	51·6	10·89	26·2	23·8	18·2	23·2	20·1	21·8	20·4	27·1	28·0	27·3	25·0	24·7	22·0	31·8	25·1	33·7	31·1	33·3	32·0	29·1	30·6	30·8	30·7	28·3	34·0	26·6	23·3	23·1	22·8
	Sept. ,, (13 weeks)	59·3	15·17	18·1	17·4	14·2	14·3	15·1	19·9	14·2	20·2	16·8	19·2	15·4	14·9	17·1	22·4	18·5	19·9	20·3	19·2	20·1	26·7	17·3	14·5	16·7	18·6	18·7	18·0	24·1	20·3	16·6
	Dec. ,, (13 weeks)	45·0	7·22	21·2	20·5	19·2	16·4	20·9	24·6	23·3	28·2	19·5	16·4	17·7	18·8	19·2	26·2	20·6	24·2	22·1	21·6	21·3	23·2	16·1	16·9	19·2	20·4	19·8	18·3	28·9	28·8	26·0
1	Jan. 10	27·5	−2·50	29·9	30·9	27·1	25·7	27·3	21·6	25·6	27·7	29·6	24·9	22·3	17·1	36·6	33·5	31·2	35·5	39·4	28·4	28·6	39·2	22·4	29·5	25·7	28·7	26·8	22·1	29·0	28·9	24·8
2	,, 17	30·9	−0·61	29·0	31·0	20·7	23·8	26·8	27·2	31·7	22·7	28·1	27·1	22·6	19·3	28·3	30·7	27·6	35·0	33·6	27·3	25·1	33·8	31·1	35·1	22·6	28·7	25·0	16·3	23·4	19·5	25·2
3	,, 24	35·3	1·83	26·7	27·3	28·0	20·8	20·6	20·4	26·5	32·1	25·8	23·0	25·5	19·9	31·9	29·8	30·3	29·5	27·6	32·4	26·4	38·2	27·3	38·9	18·0	24·6	26·6	15·0	24·2	25·6	20·0
4	,, 31	44·2	6·78	23·8	23·5	22·1	16·3	21·6	24·1	26·8	18·9	27·9	24·1	15·7	14·9	28·8	24·9	25·8	27·9	34·1	27·6	22·1	32·4	20·7	29·5	21·9	21·3	22·3	17·6	22·6	21·7	21·2
5	Feb. 7	41·1	5·06	21·1	20·2	19·4	22·1	16·0	28·4	24·2	17·0	23·7	15·0	24·0	13·8	20·9	22·9	20·4	22·0	25·7	25·3	28·1	37·2	17·4	21·3	20·7	19·6	20·8	16·1	21·5	20·3	19·2
6	,, 14	38·4	3·56	21·2	20·7	20·3	14·0	16·0	23·5	19·3	16·4	20·5	15·7	20·8	28·1	20·4	25·1	21·3	24·5	28·6	26·1	26·4	28·0	21·3	16·3	20·7	19·4	20·8	20·8	18·7	17·0	23·6
7	,, 21	36 6	2·56	23·0	21·8	16·7	17·9	21·1	20·4	28·2	15·1	22·6	20·1	17·2	17·7	23·6	27·2	26·7	31·0	28·6	31·6	29·9	22·7	32·7	37·6	21·9	21·8	19·2	16·3	25·0	21·7	22·4
8	,, 28	37·9	3·28	25·6	25·2	25·3	16·6	25·2	13·0	30·3	19·5	27·5	23·8	26·2	16·0	25·1	27·2	20·8	27·0	33·8	26·9	40·7	26·6	32·2	32·0	22·6	28·4	25·0	20·0	28·2	20·3	22·4
9	March 7	46·6	8·11	25·2	24·9	18·0	21·8	25·2	27·2	24·2	17·6	26·6	27·1	20·6	19·3	21·5	25·6	19·5	27·5	28·1	24·9	30·3	24·2	34·4	32·0	25·5	25·6	25·6	19·2	29·8	27·8	30·8
10	,, 14	35·3	1·83	23·6	22·0	22·1	24·1	14·9	22·8	26·8	19·5	22·4	27·4	23·3	19·3	23·0	26·8	24·0	28·1	30·4	31·6	32·5	25·1	31·6	23·2	21·9	22·5	22·6	21·3	21·8	23·4	25·6
11	,, 21	38·9	3·83	23·3	21·6	18·5	26·4	20·1	22·8	21·6	27·7	21·3	22·7	20·6	13·8	17·8	27·0	21·7	28·1	28·6	33·2	37·7	29·0	35·4	27·6	23·1	24·7	20·7	22·8	21·5	24·5	24·4
12	,, 28	40·2	4·56	22·6	20·6	22·6	27·0	22·1	24·7	26·1	23·3	21·5	24·1	19·9	15·5	19·4	28·1	17·6	25·9	26·5	30·4	30·3	29·0	36·5	26·3	22·8	22·9	22·0	25·2	21·5	21·7	18·4
13	April 4	41·5	5·28	23·9	22 2	15·8	27·7	18·5	29·6	23·5	19·5	19·8	28·2	20·8	15·5	29·3	27·5	19·5	26·9	32·3	25·3	30·3	28·5	22·4	28·2	20·7	27·3	22·6	40·0	23·4	25·9	21·2

14	April	11	42·6	5·89	24·3	21·3	19·8	31·0	18·5	23·5	22·8	22·0	24·4	22·3	23·5	25·9	20·9	28·7	26·2	29·7	27·0	24·5	28·6	24·2	28·9	19·4	26·0	26·8	25·8	46·4	25·0	30·0	24·8
15	„	18	43·9	6·61	24·0	21·8	19·4	23·1	21·6	17·9	21·1	17·0	18·9	28·2	25·7	19·9	20·9	26·3	20·8	27·4	26·0	27·3	23·4	26·1	21·3	27·0	20·7	24·0	35·3	52·4	27·8	27·8	23·2
16	„	25	44·4	6·89	25·8	22·3	12·6	25·4	23·7	25·9	19·0	25·2	26·2	24·5	23·3	17·7	23·0	31·7	21·3	29·8	22·3	29·6	25·1	29·5	26·2	33·9	29·1	28·0	60·1	40·0	24·2	23·4	23·6
17	May	2	49·1	9·50	28·6	24·8	21·2	24·8	16·0	27·8	18·3	27·7	21·6	24·9	25·0	27·0	16·2	32·7	27·6	35·1	28·9	34·8	40·2	32·4	26·7	40·8	36·3	36·2	73·4	31·9	23·4	27·5	20·8
18	May	9	51·3	10·72	30·8	25·6	20·7	26·1	26·8	22·8	19·0	25·8	26·8	32·6	28·7	26·5	27·7	37·3	19·5	43·6	39·1	43·8	32·0	36·7	39·8	35·1	45·4	48·5	61·7	27·2	24·6	27·8	24·4
19	„	16	54·5	12·50	32·0	27·7	20·7	31·3	23·2	27·2	26·1	29·6	36·4	44·6	34·8	40·3	26·7	35·8	29·0	41·9	45·7	45·0	33·3	31·4	54·5	82·6	58·7	43·7	35·9	17·6	24·6	23·9	22·0
20	„	23	45·5	7·50	30·5	27·6	18·5	25·4	21·6	24·7	22·1	29·6	34·3	31·8	24·5	34·8	24·1	39·1	23·5	44·1	42·0	57·7	35·5	27·5	36·0	43·3	48·8	35·2	27·4	22·8	26·6	15·0	25·6
21	„	30	48·7	9·28	30·9	28·9	21·7	21·5	16·5	21·0	22·5	27·7	38·1	28·2	36·0	38·6	28·8	38·7	33·0	44·1	45·9	39·9	39·8	35·8	43·6	33·9	34·6	29·7	23·7	19·0	24·6	21·7	30·4
22	June	6	58·9	14·94	28·3	27·0	18·0	25·7	16·5	19·1	17·4	35·9	38·2	30·4	24·0	22·6	26·2	35·5	28·5	39·8	39·4	35·9	48·5	33·3	34·4	33·9	29·1	24·9	18·9	17·8	21·8	21·4	24·8
23	„	13	54·5	12·50	23·8	23·3	14·0	18·6	20·1	16·0	18·5	27·7	30·9	21·2	27·0	17·1	19·4	31·4	22·6	29·1	23·1	24·9	37·6	30·9	21·7	31·4	17·5	19·5	22·9	17·6	22·6	19·7	21·6
24	„	20	62·2	16·78	23·1	23·0	15·3	17·3	19·0	14·2	18·8	30·9	26·9	22·3	20·8	16·0	22·5	29·3	30·8	27·0	24·7	27·2	27·7	27·5	26·2	23·8	20·4	15·1	21·3	19·2	17·9	23·1	24·4
25	„	27	64·0	17·78	20·4	19·0	19·4	17·6	21·1	24·1	20·0	28·3	23·5	27·8	17·9	19·3	16·8	26·8	20·8	23·8	23·1	23·7	21·6	21·3	20·2	23·8	17·8	18·8	18·1	20·0	19·5	21·7	16·0
26	July	4	62·4	16·89	17·7	16·8	15·8	14·7	16·5	19·1	20·0	24·6	17·3	15·7	13·2	16·0	13·1	20·2	22·6	23·1	17·3	18·6	22·9	21·7	18·5	21·3	16·1	17·7	17·5	17·1	20·3	17·8	14·8
27	July	11	59·2	15·11	16·8	16·7	14·0	14·7	12·4	19·8	13·6	15·1	16·0	16·1	15·0	13·2	15·7	20·4	14·5	19·4	21·3	21·3	14·3	21·7	19·1	13·8	15·4	16·5	12·8	15·6	19·9	16·1	20·4
28	„	18	63·4	17·44	17·5	17·0	15·8	12·4	18·0	19·1	15·5	19·5	17·0	13·2	12·3	8·8	17·8	24·5	11·8	18·3	22·3	21·3	20·8	18·8	18·5	17·6	15·9	17·2	16·0	20·2	17·5	22·5	19·2
29	„	25	60·9	16·06	17·6	18·1	8·6	11·7	16·0	19·1	15·5	15·1	15·4	19·0	14·0	19·9	15·7	20·7	18·6	19·0	17·8	13·4	14·3	18·4	19·6	16·3	16·3	18·9	18·0	16·6	26·6	14·7	18·8
30	August	1	57·0	13·89	19·6	20·5	9·9	14·3	14·9	16·0	10·3	18·3	17·8	22·7	12·3	17·1	22·5	24·6	15·8	17·7	18·4	18·2	14·7	35·8	18·5	19·4	18·5	23·0	20·0	21·3	19·9	20·0	17·2
31	August	8	57·4	14·11	19·1	20·3	16·2	14·0	18·5	14·8	13·6	22·7	16·6	21·2	19·6	12·1	17·3	20·2	18·1	16·8	18·4	16·2	16·0	30·9	16·4	16·3	14·4	21·2	19·1	16·3	21·5	21·4	14·4
32	„	15	61·4	16·33	18·8	20·1	14·4	13·0	12·9	16·0	13·6	18·9	14·9	18·3	14·2	12·1	15·7	21·1	21·7	19·4	19·4	14·6	19·9	28·5	16·4	20·1	16·6	21·0	16·2	15·3	24·2	17·0	16·4
33	„	22	58·0	14·44	18·0	17·8	9·9	21·5	13·4	21·6	15·3	14·5	15·5	21·6	15·9	15·5	15·2	22·4	16·3	18·5	22·6	18·6	14·7	24·2	14·7	8·8	17·3	17·2	20·0	18·9	26·6	18·9	15·2
34	„	29	58·4	14·67	18·1	17·3	13·1	14·7	11·3	25·9	13·6	25·2	18·7	20·8	16·2	13·8	13·6	22·9	20·4	19·4	18·1	21·7	22·5	28·5	16·4	10·0	16·1	17·7	22·4	15·6	26·6	16·7	14·8
35	Sept.	5	57·4	14·11	16·8	16·0	13·1	11·7	15·4	19·1	14·6	20·8	15·7	17·9	11·3	18·2	18·8	21·2	18·1	16·1	19·4	19·7	22·5	27·5	16·4	18·2	15·4	17·4	17·2	17·4	20·3	20·9	16·0
36	„	12	62·9	17·17	17·3	15·0	18·9	17·6	11·3	21·6	15·7	20·8	15·5	17·2	17·7	16·6	15·7	22·0	23·5	21·9	17·3	21·7	25·1	24·2	10·9	12·5	19·2	18·2	19·6	16·9	26·2	24·7	14·8
37	„	19	59·9	15·50	17·7	15·7	16·7	12·4	18·0	14·2	16·0	19·5	17·0	17·9	16·4	18·2	17·8	23·2	23·1	25·0	21·8	19·0	23·8	29·0	18·0	13·2	15·9	16·7	19·4	13·8	27·8	23·4	14·0
38	„	26	55·7	13·17	18·9	16·3	18·5	16·0	14·9	25·3	15·3	28·3	18·4	24·9	18·4	13·2	18·3	21·6	21·3	24·0	23·9	25·3	29·0	26·6	19·6	6·9	17·3	21·3	21·2	21·3	33·0	22·8	19·6
39	October	3	55·8	13·22	18·4	15·7	15·3	12·4	19·0	26·5	12·4	23·3	19·4	19·0	16·7	15·5	18·3	27·0	17·6	22·8	23·4	18·6	23·8	32·4	20·2	15·1	19·2	16·0	21·8	24·9	23·4	25·3	14·4
40	October	10	54·5	12·50	18·4	17·2	12·2	14·3	23·2	14·8	13·1	23·9	17·8	15·4	16·7	13·8	18·8	23·0	24·9	23·3	21·3	22·1	17·3	23·7	14·2	13·2	15·9	18·5	16·5	21·3	25·8	24·2	19·2
41	„	17	51·5	10·83	18·2	16·3	19·8	19·2	24·7	19·1	16·2	25·8	19·3	15·0	17·2	9·4	15·7	21·2	20·8	21·6	21·3	22·5	25·5	20·3	14·2	18·2	18·3	19·2	19·1	20·8	22·6	15·6	24·4
42	„	24	50·5	10·28	18·6	17·6	17·6	16·3	18·5	18·5	21·1	16·4	18·2	15·4	14·2	18·8	17·3	23·2	20·4	22·3	19·4	19·7	25·1	21·7	21·3	20·1	16·3	18·9	18·6	13·5	23·4	20·3	21·2
43	„	31	46·2	7·89	18·1	16·7	10·8	14·0	14·9	13·0	19·7	20·8	18·7	15·4	15·9	14·9	24·6	21·9	15·4	24·3	22·0	17·8	16·4	16·4	12·0	22·6	23·3	17·8	17·0	21·0	25·0	22·2	19·2
44	Nov.	7	45·2	7·33	19·3	17·9	15·8	16·0	14·9	19·1	23·7	25·2	17·3	16·8	15·9	18·8	24·6	26·1	19·9	22·5	25·2	17·4	25·1	24·2	16·4	13·2	16·8	19·1	17·2	17·1	28·6	23·4	25·2
45	„	14	43·8	6·56	20·6	19·6	15·8	15·6	23·2	21·0	26·8	22·7	22 8	18·7	18·1	18·2	16·8	24·8	16·7	27·9	20·5	26·9	19·0	23·7	16·9	17·6	16·3	15·1	17·0	17·9	33·0	24·7	21·2
46	„	21	46·5	8·06	20·7	20·1	21·2	14·7	28·8	24·7	24·4	24·6	19·5	16·8	15·9	24·8	21·5	27·1	22·2	22·4	19·9	19·0	22·9	22·7	11·5	13·2	18·7	16·8	18·1	18·9	31·8	25·9	26·0
47	„	28	37·9	3·28	20·5	19·9	14·4	13·4	17·0	38·3	25·1	29·0	20·1	19·0	17·7	16·0	16·2	24·6	15·8	21·8	21·8	20·5	14·3	25·1	14·7	20·1	16·8	18·6	21·8	14·5	32·2	31·1	24·8
48	Dec.	5	46·5	8·06	22·6	21·2	18·0	17·3	22·1	25·9	33·3	34·0	19·0	16·5	18·9	18·2	20·4	29·7	20·8	24·1	24·1	22·5	21·6	29·0	20·7	20·1	18·5	20·6	19·9	18·9	38·9	35·0	37·2
49	„	12	44·9	7.17	19·8	18·1	25·7	16·3	12·4	45·1	22·3	40·9	18·8	12·8	21·6	18·8	19·4	25·0	14·9	19·5	16·8	23·7	21·6	16·4	15·8	13·2	17·5	20·6	18·1	13·5	31·4	36·4	33·2
50	„	19	40·7	4·83	19·1	17·9	22·1	11·7	18·0	19·8	22·1	31·5	16·5	17·6	10·8	19·9	14·7	24·1	19·5	21·6	17·3	16·6	16·9	19·8	13·8	12·5	16·6	20·1	21·5	17·1	30·6	32·8	28·8
51	„	26	29·1	−1·61	22·8	21·9	18·0	17·9	20·1	24·7	25·1	26·4	16·5	13·2	20·6	17·7	17·3	28·1	26·2	27·1	25·2	24·1	20·3	25·1	16·4	16·9	22·6	24·2	26·0	16·9	27·0	45·1	22·4
52	Jan.	2	43·0	6·11	36·4	42·0	38·3	27·0	33·5	35·8	29·8	45·3	29·1	20·5	26·2	35·9	22·0	42·2	29·9	35·6	32·5	28·4	30·7	33·8	21·8	19·4	32·0	35·5	26·3	26·7	25·0	37·0	34·8

* *See* note (†) to Table 1.

TABLE 5.—**Births** and **Deaths** in 1891 in **Edinburgh, Glasgow,** and **Dublin,** and in certa
Colonial and **Foreign Cities.**

CITIES.	POPULATION (enumerated or estimated).	BIRTHS. (Excluding Stillborn.)	DEATHS. (Excluding Stillborn.)	ANNUAL RATE per 1000 Persons living.		DEATHS FROM SOME ZYMOTIC DI					
				Births.	Deaths.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Fever
EDINBURGH	261,970	7352	5632	28·1	21·6	–	69	48	54	159	
GLASGOW	567,143	19799	14296	35·0	25·3	1	434	210	125	485	1
DUBLIN	347,312	9850	9195	28·4	26·5	–	5	4	23	160	2
CALCUTTA	466,459	–	12962	–	27·9	15	104	–	22	21	46
BOMBAY	821,764	15453	23784	18·9	29·0	125	598	?	?	?	68
MADRAS (51 weeks)	452,518	17804	23236	40·2	52·5	70	372	?	?	?	65
PARIS	2,424,705	61238	52126	25·3	21·6	38	983	199	1348*	324	4
BRUSSELS (with Faubourgs).	465,517	12926	10404	27·8	22·3	335	254	8	26	118	1
AMSTERDAM	417,539	14343	9237	34·4	22·2	3	274	6	159	265	
ROTTERDAM	209,136	7745	4450	37·1	21·3	–	27	6	10	37	
THE HAGUE	160,531	5422	3115	33·9	19·5	–	2	1	20	54	
COPENHAGEN	320,000	10464	6960	32·8	21·8	6	50	44	343	121	
STOCKHOLM	245,317	7572	5327	31·0	21·8	–	507	137	240*	63	
CHRISTIANIA	151,130	2624	2983	17·4	19·8	1	65	36	102	35	
ST. PETERSBURG (without Faubourgs).	954,400	–	–	–	–	–	–	–	–	–	
MOSCOW	753,469	–	27915	–	37·0	105	193	422	486	99	5
BERLIN	1,601,327	51924	33391	32·4	20·9	6	173	150	1010	424	1
HAMBURG (State)	622,530	22964	14620	37·0	23·5	–	32	133	247*	129	1
DRESDEN	276,523	9066	5376	32·9	19·5	–	11	21	258*	54	
BRESLAU	339,000	12299	9909	36·3	29·2	–	135	149	262	98	
MUNICH	357,000	13213	9854	37·0	27·6	–	114	96	340*	104	
VIENNA (with Suburbs).	1,378,530	45278	33593	33·0	24·5	451	786	263	1289*	137	
PRAGUE	310,485	9797	8626	31·6	27·9	127	113	155	167	97	1
BUDA-PESTH	513,010	18388	14346	35·9	28·0	–	74	294	749	23	1
TRIESTE	156,190	4998	4745	32·1	30·5	1	95	7	182*	34	
ROME	427,684	12260	10087	28·7	23·6	4	359	9	302	57	4
TURIN	320,808	8437	7313	26·3	22·8	8	72	9	140	59	1
VENICE	158,288	4351	4293	27·6	27·2	10	42	4	150	10	
CAIRO	374,838	20245	20081	54·2	53·7	35	586	1	90*	158	8
ALEXANDRIA	231,396	10467	10479	45·4	45·4	50	62	5	141*	23	8
NEW YORK	1,680,796	–	43543	–	26·0	2	658	1215	1362	349	3
BROOKLYN	862,155	–	21272	–	24·7	–	203	483	761	140	1
PHILADELPHIA	1,069,264	–	22943	–	21·5	5	41	337	905	138	6
BALTIMORE	455,427	–	10073	–	22·1	–	16	128	350	163	1
BOSTON	459,062	–	10571	–	23·0	–	21	64	232	39	1
ST. LOUIS	460,000	–	–	–	–	–	–	–	–	–	–
NEW ORLEANS	254,000	–	6828	–	27·0	–	49	3	55	9	3

* Including deaths from croup.

† Including 1542 deaths from cholera in Calcutta, 156 in Bombay, and 1895 in M
‡ Including 253 deaths from malarial fever.

TABLE 6.—LONDON.* **Numbers** of **Natives** and **Immigrants** respectively, **living** in LONDON, in 1871 and in 1881.

	MALES.		FEMALES.		EXCESS OF FEMALES.	
	1871.	1881.	1871.	1881.	1871.	1881.
TOTAL INHABITANTS - - -	1,523,151	1,797,486	1,731,109	2,018,997	207,958	221,511
BORN IN LONDON - - -	975,461	1,147,063	1,080,115	1,254,892	104,654	107,829
BORN OUT OF LONDON - - -	547,690	650,423	650,994	764,105	103,304	113,682

* This Table refers to London as constituted in 1881. The numbers therefore differ from those in Tables in the Annual Summary from which the hamlet of Mottingham is excluded; this hamlet was transferred from Registration London to the Outer Ring in 1887.

TABLE 7.—GREATER LONDON.—**Area, Population, Inhabited Houses,** and **Rateable Value.**

	AREA (including Tidal Water).		ENUMERATED POPULATION, 1891. (Unrevised.)	DENSITY OF POPULATION in 1891.		INHABITED HOUSES, 1891. (Unrevised.)	RATABLE VALUE.*	
	In Acres.	In Square Miles.		Persons to an Acre.	Persons to a Square Mile.		1881.	1891.
							£	£
GREATER LONDON -	448,334	701	5,633,332	12·6	8,036	797,679	32,854,916	41,009,677
INNER LONDON -	77,410	121	4,211,056	54·4	34,802	553,764	27,402,509	32,943,260
OUTER RING - -	370,924	580	1,422,276	3·8	2,452	243,915	5,452,407	8,066,417

* Supplied from the London County Council and Metropolitan Police Offices.

TABLE 8.—GREATER LONDON (THE METROPOLITAN AND CITY POLICE DISTRICTS).—**Population;** and **Births** and **Deaths** in the 52 Weeks of 1891.

	POPULATION, estimated to the middle of 1891.	ANNUAL RATE per 1000 living.			TOTAL BIRTHS.	TOTAL DEATHS.	The DEATHS registered in the 52 Weeks include									
							Deaths of		Deaths from							
		Births.	Deaths.	Principal Zymotic Diseases.			Infants under 1 Year of Age.	Persons aged 60 Years and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Fever.	Diarrhœa.	Deaths in Public Institutions.
GREATER LONDON -	5,656,909	31·7	19·8	2·09	178,704	111,954	26,222	29,665	8	2097	701	1708	3534	764	2995	24797
REGISTRATION LONDON* -	4,221,452	31·8	21·4	2·30	134,003	90,216	20,682	23,504	8	1807	589	1361	2876	597	2437	23052
OUTER RING -	1,435,457	31·2	15·2	1·49	44,701	21,738	5540	6161	–	290	112	347	658	167	558	1745

* See note (†) to Table 1.

TABLE 9.—London.—Mortality in Five Groups of Districts, and Meteorology at Greenwich, 1841–1891.

	London.	Groups of Districts.					Meteorology at Greenwich.			
		West.	North.	Central	East.	South.	Mean Temperature of Air.	Degree of Humidity. Saturation = 100.	Rainfall, in Inches.	Mean Hourly Horizontal Movement of the Air.*
Area in Square Miles	121·0	16·8	21·0	8·5	9·3	70·4				
Decennial Increase of Population per Cent., 1881–91	10·4	10·6	9·7	−12·4 (decrease).	1·8	20·4				
Enumerated Population, 1891 (unrevised)	4,211,056	740,725	994,207	247,140	705,012	1,523,972				
Density: Persons to an Acre 1841	25	27	28	172	66	11				
1871	42	52	56	150	107	21				
1881	49	62	67	127	116	28				
1891	56	71	74	116	128	35				
Years.	**Mean Rate of Mortality per 1000 in 51 years.**						**Means in 51 years, 1841–91.**			
1841–1891	23·2	21·6	21·8	24·8	25·3	23·0	° 49·2	° 81	ins. 24·5	miles. 11·1 (42 yrs.)
	Means in Periods of Ten Years.						**Means in Periods of Ten Years**			
1841–50	24·8	23·0	22·7	24·7	26·2	26·2	° 49·4	° 82	ins. 24·5	miles. —
1851–60	23·7	22·6	22·2	24·4	25·1	24·4	49·0	81	24·4	10·0
1861–70	24·4	22·7	23·6	26·5	26·9	23·4	49·6	81	24·0	10·8
1871–80	22·5	20·8	21·9	24·9	25·0	21·9	49·2	81	26·5	11·6
1881–90	20·5	19·7	19·1	23·3	23·7	19·5	48·9	81	23·1	11·8
	Annual Rate of Mortality per 1000.						**Meteorology in each year.**			
1841	24·1	22·4	22·4	25·0	25·1	24·4	° 48·7	° 83	ins. 33·3	miles. —
1842	23·6	22·6	22·6	23·6	24·4	23·9	49·6	84	22·6	—
1843	24·8	23·3	23·1	25·3	26·4	24·8	49·4	87	24·6	—
1844	25·1	23·9	23·3	24·4	25·9	25·6	48·6	83	24·9	—
1845	23·3	22·5	21·0	24·0	24·6	23·8	47·6	85	22·4	—
1846	23·4	21·6	21·9	22·9	24·1	24·6	51·3	83	25·3	—
1847	26·8	24·5	25·4	27·9	29·4	27·7	49·5	81	17·8	—
1848	25·7	23·6	23·4	25·3	28·7	27·2	50·4	79	30·2	—
1849	30·1	26·1	23·7	27·9	31·8	37·6	50·0	78	23·9	—
1850	21·0	19·6	19·8	21·1	21·7	21·9	49·3	79	19·7	11·0
1851	23·4	22·0	22·2	24·1	24·8	24·0	49·2	78	21·6	10·3
1852	22·5	21·5	21·2	23·9	23·3	23·0	50·6	76	34·2	10·6
1853	24·4	22·3	22·4	25·1	26·5	25·3	47·7	79	29·0	9·5
1854	29·4	28·5	24·4	27·4	30·0	34·8	48·9	83	18·7	10·3
1855	24·3	23·0	23·3	25·1	25·5	24·6	47·1	83	21·1	9·9
1856	22·0	21·5	21·1	23·0	23·3	21·8	49·0	83	22·2	10·6
1857	22·4	21·2	21·5	23·8	24·6	21·5	51·0	83	21·4	9·3
1858	23·9	22·4	22·9	24·5	25·8	24·0	49·2	79	17·8	9·7
1859	22·7	21·4	21·7	24·1	24·0	22·6	50·7	80	25·9	9·5
1860	22·4	22·2	21·2	23·3	24·1	22·1	47·0	84	32·0	10·0
1861	23·2	22·1	22·3	25·4	24·0	22·8	49·4	84	20·8	9·9
1862	23·6	22·0	22·0	26·2	26·0	22·7	49·5	84	26·2	10·0
1863	24·5	22·9	23·8	26·9	26·5	23·3	50·3	80	20·0	10·3
1864	26·4	24·4	25·3	29·5	29·0	25·3	48·5	78	16·7	9·5
1865	24·5	22·6	24·5	27·1	26·5	23·2	50·3	80	29·0	9·3
1866	26·5	22·6	25·3	27·1	34·0	24·1	49·8	82	30·7	11·4
1867	23·0	21·7	23·1	24·8	24·2	22·1	48·6	82	28·4	11·3
1868	23·5	22·2	22·7	25·2	25·4	22·9	51·5	78	25·2	12·2
1869	24·6	22·2	23·5	26·6	27·9	23·8	49·5	81	24·0	12·2
1870	24·1	23·8	23·5	26·0	25·0	23·4	48·7	79	18·5	11·1
1871	24·6	22·5	25·6	25·0	26·1	24·0	48·7	81	22·3	10·5
1872	21·5	19·6	21·2	23·6	23·6	20·7	50·7	82	30·0	11·9
1873	22·4	20·5	21·2	25·1	25·3	21·7	48·9	82	23·4	11·8
1874	22·4	20·9	21·7	25·7	25·5	21·0	49·3	82	20·0	11·5
1875	23·6	22·2	22·2	26·2	25·7	23·3	49·2	80	28·2	11·5
1876	21·9	21·0	21·2	24·1	24·0	21·2	50·1	80	24·2	12·1
1877	21·6	19·2	21·5	24·2	24·5	20·5	49·4	79	26·9	13·0
1878	23·1	21·6	22·0	25·2	25·1	23·0	49·6	81	29·2	11·1
1879	22·6	20·9	21·5	26·3	25·5	21·8	46·2	83	31·3	11·3
1880	21·7	19·8	20·8	23·8	24·3	21·3	49·4	84	29·8	11·7
1881	21·3	19·6	20·7	23·4	24·3	20·5	48·7	81	25·2	12·1
1882	21·5	20·0	19·8	24·0	25·3	20·8	49·7	84	25·2	12·8
1883	20·8	19·8	19·4	23·8	24·4	19·8	49·4	82	21·9	12·1
1884	20·9	19·7	19·6	23·8	23·4	20·2	50·7	80	18·1	11·9
1885	20·4	19·9	19·3	22·9	23·0	19·1	48·6	81	24·0	12·0
1886	20·6	19·8	18·9	23·4	23·9	19·9	48·7	81	24·2	11·8
1887	20·3	19·9	18·9	23·5	23·8	19·4	47·8	79	19·9	11·5
1888	19·3	19·3	17·7	22·7	22·7	18·1	47·7	82	27·5	12·3
1889	18·4	18·1	16·9	20·9	21·2	17·7	48·8	83	23·3	10·2
1890	21·4	20·5	19·6	24·8	25·1	19·6	48·6	81	21·9	11·2
1891	21·4	20·8	20·0	26·5	24·0	19·8	48·4	82	25·1	11·7

NOTE.—The populations upon which these rates of mortality have been calculated are deduced from the numbers enumerated at the six Censuses of 1841, 1851, 1861, 1871, 1881, and 1891. The deaths used for the 50 years 1841–90 are for the calendar years, while those for 1891 are the numbers registered in the 52 weeks ending 2nd January 1892.

Hampstead and Lewisham did not form part of Registration London prior to 1847. Wandsworth was not included in Registration London until the commencement of 1844, but the facts for that district have been included, in calculating the rates in the above Table, for the years 1840–43. The hamlet of Mottingham was transferred from Lewisham District to the Outer Ring on 1st April 1887.

Certain changes affecting the West and Central groups of districts were made in the year 1868, but no corrections for these changes have been made in this Table for any year prior to 1861.

* Approximated to the results of Robinson's anemometer by reduction from Whewell's, up to 1859.

LE 10.—**LONDON*: Population** at different **Ages,** as enumerated in **1851, 1861, 1871, 1881,** and **1891,** with the Numbers of **Males** and **Females** at the various **Ages** in **1891.**

–	All Ages.	0–	5–	10–	15–	20–	25–	35–	45–	55–	65–	75–	85 & upwds.
1	2,362,236	293,562	243,648	216,369	213,694	241,401	428,123	308,949	208,363	122,946	62,608	19,845	2,728
1	2,803,989	362,296	300,259	264,349	259,155	277,389	476,802	366,417	246,918	149,503	74,039	23,721	3,141
1	3,254,260	422,629	349,686	309,658	307,075	321,585	551,973	404,954	290,977	174,265	90,198	27,604	3,656
1	3,816,483	497,044	419,740	366,111	368,628	385,236	641,265	471,131	320,530	205,921	103,815	32,982	4,080
1	4,211,056	501,558	454,077	416,349	416,747	428,379	717,385	519,556	368,475	221,520	122,715	39,169	5,126
–	1,990,438	249,270	225,858	206,194	197,393	194,080	332,636	246,183	173,084	98,760	50,401	14,069	1,510
s –	2,220,618	252,288	228,219	210,155	219,354	234,299	383,749	273,373	195,391	122,760	72,314	25,100	3,616

n England the proportion of Females to Males in the population in 1891 was as 106 to 100; in London it was as 112 to 100. proportions in 1881 were 105 and 112 respectively. The figures in this table refer to London as constituted in the respective s years.

TABLE **11.—LONDON: Marriages, Births,** and **Deaths, 1877–1891.**

Years.		1877.	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891 (52 weeks).
ages – –		33,593	33,711	33,477	34,144	34,578	35,612	35,379	35,381	34,560	34,482	34,251	34,635	35,412	36,752	37,298
s –	Persons	128,092	129,765	131,542	133,310	132,904	133,309	134,503	135,651	132,952	134,339	133,359	131,761	132,233	128,161	134,003
	Males –	65,477	66,241	66,445	67,985	67,556	67,958	68,449	69,106	67,924	68,507	67,569	66,919	67,398	65,168	68,161
	Females	62,615	63,524	65,097	65,325	65,348	65,351	66,054	66,545	65,028	65,832	65,790	64,842	64,835	62,993	65,842
hs* –	Persons	77,543	84,298	83,964	81,957	81,431	83,015	81,108	82,448	80,978	82,691	82,443	79,244	76,162	89,268	90,216
	Males –	40,047	43,100	42,920	42,038	41,742	42,141	41,718	42,565	41,285	42,257	42,201	40,495	38,947	45,959	46,359
	Females	37,496	41,198	41,044	39,919	39,689	40,874	39,395	39,883	39,693	40,434	40,242	38,749	37,215	43,309	43,857
s of Births r Deaths –		50,549	45,467	47,578	51,353	51,473	50,294	53,395	53,203	51,974	51,648	50,916	52,517	56,071	38,893	43,787
ual es 000.	Persons Married	18·7	18·5	18·0	18·1	18·1	18·4	18·1	17·9	17·4	17·2	16·9	16·9	17·1	17·6	17·7
	Births –	35·6	35·5	35·5	35·3	34·7	34·5	34·5	34·3	33·4	33·4	32·9	32·1	31·9	30·7	31·8
	Deaths	21·6	23·1	22·6	21·7	21·3	21·5	20·8	20·9	20·4	20·6	20·3	19·3	18·4	21·4	21·4

TE.—The figures in the above table, except those for 1891, relate to the calendar year ending 31st December. The figures for relate to the 52 weeks ending 2nd January 1892.
See note † to Table 1.

TABLE 12.—LONDON. **Population,** and **Zymotic** and

PERIOD AND YEAR.	ESTIMATED POPULATION.	DEATHS FROM PRINCIPAL ZYMOTIC DISEASES.									
		Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric Fever.	Simple and Ill-defined Fever.	Diarrhœa and Dysentery.	Cholera.
Cols. - 1	2	3	4	5	6	7	8	9	10	11	12
Period.											
1841-50	2,103,487	8,416	13,011	18,314		18,079		20,890		16,926	15,588
1851-60	2,570,489	7,150	13,766	26,317		22,497		22,597		26,362	12,886
1861-70	3,018,193	8,347	17,338	34,391	5,323	26,550		27,149		31,578	7,403
1871-80	3,513,843	15,539	17,947	21,247	4,319	28,728	1,887	8,536	2,579	33,168	1,328
1881-90	4,010,158	5,634	25,449	13,268	10,435	27,686	327	7,502	717	29,922	941
1841	1,878,205	1053	973	663		2278		1151		543	28
1842	1,917,108	360	1293	1224		1603		1184		855	118
1843	1,954,041	438	1442	1867		1908		2094		1005	85
1844	2,033,816	1804	1182	3029		1292		1721		831	65
1845	2,073,298	909	2318	1085		1816		1324		940	43
1846	2,113,535	257	747	928		2035		1838		2308	228
1847	2,202,673	955	1778	1433		1600		3297		2283	117
1848	2,244,837	1620	1144	4767		1630		3685		2247	652
1849	2,287,302	521	1154	2149		2349		2564		3837	14,125
1850	2,330,054	499	980	1169		1568		2032		2077	127
1851	2,373,081	1062	1297	1285		2185		2374		2755	213
1852	2,416,367	1159	595	2571		1569		2183		2513	162
1853	2,459,899	211	978	2016		2667		2617		2649	883
1854	2,503,662	694	1409	3477		2502		2816		3325	10,738
1855	2,547,639	1039	878	2611		2438		2460		2190	149
1856	2,591,815	531	1479	1819		2092		2717		2414	152
1857	2,636,174	156	1341	1599		2527		2195		3298	214
1858	2,680,700	242	2369	4184		2708		1919		2220	131
1859	2,725,374	1158	1330	3481	773	1742		1840		3513	193
1860	2,770,181	898	2090	2017	484	2067		1476		1485	51
1861	2,815,101	217	1062	2381	674	3548		1848		2740	168
1862	2,860,117	366	2334	3492	730	2168		3673		1839	106
1863	2,905,210	1996	1634	4955	799	2175		2871		2492	159
1864	2,950,361	547	2788	3244	611	2423		3782		3013	156
1865	2,995,551	640	1290	2179	431	2935		3217		3721	196
1866	3,040,761	1391	2220	1892	462	2960		2688		3294	5596
1867	3,085,971	1345	1143	1451	447	2278		2184		3060	240
1868	3,131,160	597	1962	2916	495	2338		2468		4110	324
1869	3,176,308	275	1456	5841	340	3769	716	1069	615	3495	219
1870	3,221,394	973	1449	6040	334	1956	472	976	570	3814	239
1871	3,267,251	7912	1427	1902	344	2291	384	871	436	3968	221
1872	3,319,736	1786	1680	918	267	3259	174	807	322	3588	181
1873	3,373,065	113	2149	645	320	2620	277	908	325	3950	162
1874	3,427,250	57	1680	2648	419	1867	312	879	337	3207	123
1875	3,482,306	46	1408	3677	581	3204	128	817	272	3289	108
1876	3,538,246	736	1720	2308	387	2737	159	769	202	3585	135
1877	3,595,085	2551	2387	1580	316	1817	157	901	194	2421	88
1878	3,652,837	1417	1500	1808	566	4483	151	1033	197	3534	124
1879	3,711,517	450	2475	2661	575	2934	71	819	160	1894	53
1880	3,771,139	471	1521	3100	544	3516	74	702	134	3708	133
1881	3,824,964	2367	2536	2114	657	1973	92	971	134	3055	95
1882	3,862,876	430	2338	2006	857	4682	53	975	95	2144	79
1883	3,901,164	136	2441	2006	952	1598	55	963	102	2652	83
1884*	3,939,832	1236	2271	1430	951	3156	32	925	78	3903	163
1885*	3,978,883	1419	2909	722	904	2481	28	597	78	2723	77
1886*	4,018,321	24	2086	690	851	2871	13	618	73	3996	137
1887*	4,058,150	9	2904	1443	953	2935	19	612	44	3801	107
1888*	4,098,374	9	2425	1214	1511	2993	9	694	35	2206	54
1889*	4,138,996	—	2308	785	1617	1787	16	538	42	2692	62
1890*	4,180,021	4	3231	858	1382	3210	10	609	36	2750	84
1891*	4,221,452	8	1807	589	1361	2876	8	547	42	2437	73

NOTE.—Wandsworth was not included in Registration London until 1844, nor Lewisham and throughout, but the population in each year refers

For the years 1840-50 the numbers of deaths from the various diseases are derived from The figures for

Infant Mortality in 51 Years 1841–91.

Annual Mortality, to 1,000 Persons living, from principal Zymotic Diseases.										Annual Mortality of Infants under One Year of Age to 1000 Births.	Period and Year.
Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric Fever.	Simple and Ill-defined Fever.	Diarrhœa and Dysentery.	Cholera.		
13	14	15	16	17	18	19	20	21	22	23	24
											Period.
0·40	0·62	0·86		0·87		0·98		0·78	0·69	157	1841-50
0·28	0·53	1·02		0·88		0·89		1·03	0·52	155	1851-60
0·28	0·58	1·14	0·18	0·88		0·91		1·04	0·24	162	1861-70
0·46	0·51	0·60	0·12	0·82	0·05	0·24	0·08	0·95	0·04	158	1871-80
0·14	0·64	0·33	0·26	0·69	0·01	0·19	0·02	0·75	0·02	152	1881-90
0·56	0·52	0·35		1·22		0·62		0·29	0·02	160	1841
0·19	0·68	0·64		0·84		0·62		0·45	0·06	157	1842
0·23	0·74	0·96		0·98		1·08		0·52	0·04	163	1843
0·89	0·58	1·49		0·64		0·85		0·41	0·03	152	1844
0·44	1·12	0·53		0·88		0·64		0·45	0·02	149	1845
0·12	0·36	0·44		0·97		0·87		1·10	0·11	157	1846
0·43	0·80	0·64		0·72		1·47		1·02	0·05	166	1847
0·72	0·51	2·13		0·73		1·65		1·00	0·29	158	1848
0·23	0·51	0·94		1·03		1·13		1·68	6·20	169	1849
0·21	0·42	0·50		0·68		0·88		0·89	0·05	140	1850
0·45	0·55	0·54		0·92		1·00		1·16	0·09	154	1851
0·48	0·25	1·06		0·65		0·90		1·04	0·07	151	1852
0·09	0·40	0·82		1·08		1·06		1·08	0·36	158	1853
0·28	0·56	1·39		1·00		1·12		1·33	4·29	164	1854
0·41	0·35	1·02		0·96		0·97		0·86	0·06	152	1855
0·20	0·57	0·70		0·81		1·05		0·93	0·06	150	1856
0·06	0·51	0·61		0·96		0·83		1·25	0·08	156	1857
0·09	0·88	1·56		1·01		0·72		0·83	0·05	160	1858
0·43	0·49	1·28	0·28	0·64		0·68		1·29	0·07	150	1859
0·32	0·75	0·73	0·17	0·74		0·53		0·54	0·02	153	1860
0·08	0·38	0·85	0·24	1·26		0·66		0·97	0·06	155	1861
0·13	0·82	1·22	0·26	0·76		1·28		0·64	0·04	143	1862
0·69	0·56	1·71	0·28	0·75		0·99		0·86	0·05	151	1863
0·19	0·94	1·10	0·21	0·82		1·28		1·02	0·05	169	1864
0·21	0·43	0·73	0·14	0·98		1·07		1·24	0·07	171	1865
0·46	0·73	0·62	0·15	0·97		0·88		1·08	1·84	172	1866
0·44	0·37	0·47	0·15	0·74		0·71		0·99	0·08	159	1867
0·19	0·62	0·93	0·16	0·75		0·79		1·31	0·10	166	1868
0·09	0·46	1·84	0·11	1·19	0·23	0·34	0·19	1·10	0·07	170	1869
0·30	0·45	1·88	0·10	0·61	0·15	0·30	0·18	1·18	0·07	164	1870
2·42	0·44	0·58	0·11	0·70	0·12	0·27	0·13	1·21	0·07	171	1871
0·54	0·50	0·28	0·08	0·98	0·05	0·24	0·10	1·08	0·05	158	1872
0·03	0·64	0·19	0·09	0·78	0·08	0·27	0·10	1·17	0·05	160	1873
0·02	0·49	0·77	0·12	0·54	0·09	0·26	0·10	0·93	0·04	156	1874
0·01	0·40	1·06	0·17	0·92	0·04	0·23	0·08	0·94	0·03	162	1875
0·21	0·48	0·65	0·11	0·77	0·04	0·22	0·06	1·01	0·04	157	1876
0·71	0·66	0·44	0·09	0·51	0·04	0·25	0·05	0·67	0·02	146	1877
0·39	0·41	0·49	0·15	1·23	0·04	0·28	0·05	0·97	0·03	164	1878
0·12	0·67	0·72	0·15	0·79	0·02	0·23	0·04	0·51	0·01	148	1879
0·12	0·40	0·82	0·14	0·93	0·02	0·19	0·04	0·99	0·04	158	1880
0·62	0·66	0·55	0·17	0·52	0·02	0·25	0·03	0·80	0·02	148	1881
0·11	0·61	0·52	0·22	1·21	0·01	0·25	0·03	0·56	0·02	151	1882
0·04	0·63	0·51	0·24	0·41	0·01	0·25	0·03	0·68	0·02	146	1883
0·31	0·58	0·36	0·24	0·80	0·01	0·23	0·02	0·99	0·04	156	1884
0·36	0·73	0·18	0·23	0·62	0·01	0·15	0·02	0·68	0·02	148	1885
0·01	0·52	0·17	0·21	0·71	0·00	0·15	0·02	0·99	0·03	159	1886
0·00	0·72	0·36	0·23	0·72	0·00	0·15	0·01	0·94	0·03	158	1887
0·00	0·59	0·30	0·32	0·73	0·00	0·17	0·01	0·54	0·01	146	1888
—	0·56	0·19	0·39	0·43	0·00	0·13	0·01	0·65	0·02	141	1889
0·00	0·77	0·21	0·33	0·77	0·00	0·15	0·01	0·66	0·02	163	1890
0·00	0·43	0·14	0·32	0·68	0·00	0·13	0·01	0·59	0·02	154	1891

Hampstead until 1847; thus the figures in the above Table do not relate to the same area to the same area as the facts in the other columns.

summaries of 52 or 53 weeks; the numbers for the 40 years 1851–90 relate to calendar years. 1891 are for 52 weeks.

* *See* note (†) Table 1.

TABLE 13.—**Causes** of **Deaths** REGISTERED in **London** in each of the 11 Years 1881–1891, and in each Quarter of 1891.

YEARS	1881	1882	1883	1884	1885	1886	1887	1888	1889	1890	1891*	1891. QUARTER ENDING Apr. 4	July 4	Oct. 3	Jan. 2 1892
CAUSES OF DEATH.	364 Days.	364 Days.	364 Days.	371 Days.	364 Days.	364 Days.	364 Days.	364 Days.	364 Days.	371 Days.	364 Days.	91 Days	91 Days	91 Days	91 Days
ALL CAUSES	81071	82905	80578	‡ 83388	‡ 80504	‡ 82276	‡ 82208	‡ 78848	‡ 75083	‡ 91243	‡ 90216	‡ 25267	‡ 25030	‡ 18354	‡ 21565
Small-pox { Vaccinated	2371	108	42	380	398	9	1	5	–	1	2	1	1	–	–
Small-pox { Unvaccinated		184	55	417	503	8	1	–	–	–	3	–	2	1	–
Small-pox { No statement }		139	37	454	502	7	7	4	1	3	3	2	1	–	–
Measles	2533	2329	2420	2285	2928	2078	2894	2401	2314	3291	1807	452	473	248	634
Scarlet Fever	2108	2004	1989	1444	707	688	1447	1209	784	876	549	168	122	130	169
Typhus	96	52	56	31	28	13	18	10	15	11	8	1	3	2	2
Relapsing Fever†	–	1	–	1	–	1	–	–	1	–	–	–	–	–	–
Influenza	8	6	11	6	3	5	5	3	5	652	2336	31	2009	163	133
Whooping-cough	1961	4647	1582	3188	2479	2834	2928	2987	1749	3276	2876	700	759	574	843
Diphtheria	654	863	951	973	896	846	961	1301	1588	1417	1361	355	311	330	365
Simple & Ill-defined Fever	123	90	90	78	82	70	48	33	43	33	42	6	18	5	13
Enteric Fever	977	975	935	936	585	618	606	677	538	618	547	99	123	120	205
Simple Cholera	95	79	83	163	79	137	106	54	62	83	73	1	7	60	5
Diarrhœa, Dysentery	3053	2162	2644	3781	2657	3950	3773	2176	2677	2753	2437	173	218	1674	372
Remittent Fever†	–	21	17	20	16	20	14	9	12	7	4	4	–	–	–
Hydrophobia	5	4	8	9	27	9	2	3	7	2	2	–	–	2	–
Glanders	2	1	1	–	1	2	4	1	2	1	4	2	–	2	–
Cowpox and Vaccination†	–	14	12	12	7	4	9	4	11	7	14	2	3	4	5
Venereal Affections	551	517	583	537	543	544	498	516	544	541	472	118	112	126	116
Erysipelas	353	347	324	381	328	257	341	249	189	250	214	76	47	36	56
Pyæmia Septicæmia†	–	167	147	159	148	134	155	152	105	135	105	27	24	17	37
Puerperal Fever	332	287	307	327	323	279	328	275	222	237	222	79	40	44	59
Other Zymotic Diseases†	–	85	98	102	104	70	100	76	81	63	73	26	19	10	18
Thrush	178	112	127	119	112	113	80	63	83	77	59	7	10	26	16
Worms and other Parasitical Diseases	23	26	17	17	17	18	22	14	14	17	15	5	3	1	6
Starvation, Want of Breast Milk†	–	127	99	87	92	91	77	61	92	73	78	15	12	24	27
Alcoholism, Delirium Tremens	198	226	283	243	180	220	248	298	386	475	485	112	144	118	111
Rheumatic Fever, Rheumatism of Heart	601	338	384	444	416	362	418	397	331	445	384	133	91	61	99
Rheumatism		160	145	140	129	104	115	108	131	114	113	26	37	24	26
Gout	162	149	136	163	176	139	157	138	164	169	161	40	47	32	42
Rickets†	–	113	166	190	170	218	180	230	230	282	267	61	77	71	58
Cancer	2358	2442	2547	2623	2624	2688	2874	2856	2982	3258	3277	783	837	814	843
Tabes Mesenterica	1384	1370	1421	1594	1374	1591	1406	1249	1261	1392	1277	240	306	455	276
Tubercular Meningitis	1569	1252	1420	1316	1325	1253	1245	1220	1189	1237	1194	315	345	278	256
Phthisis	8312	8409	8917	8881	8372	8332	7740	7459	7748	9074	8485	2278	2292	1794	2121
Scrofula, Tuberculosis	698	749	788	994	890	954	912	862	896	950	1035	231	271	310	223
Other Constitutional Dis. †	–	379	508	515	517	521	542	546	528	595	640	177	182	133	148
Premature Birth	1489	1745	1861	1911	1837	1930	1975	1938	2025	2249	2349	578	597	590	584
Atelectasis†	–	100	136	126	150	128	138	161	127	113	140	30	38	27	45
Congenital Malformations	338	325	328	353	376	319	352	345	367	348	394	117	109	83	85
Old Age	2568	2554	2730	2473	2552	2651	2458	2485	2591	2711	2567	770	769	440	588
Apoplexy	2345	2085	1993	2141	2149	2133	2038	2236	2078	2313	2306	647	617	494	548
Epilepsy	373	345	333	378	346	369	345	365	360	443	437	96	122	106	113
Convulsions	2264	2563	2549	2602	2343	2390	2379	2392	2203	2353	2385	646	609	562	568
Other Diseases of Brain, &c.	4091	4678	4481	4440	4313	4462	4465	4364	4156	5003	4675	1441	1251	999	984
Diseases of Organs of Special Sense†	–	86	135	121	112	138	98	116	114	144	134	25	27	31	51
Diseases of Circulatory System	4865	5204	5394	5472	5755	6117	6290	6259	6460	7546	7340	2171	2070	1323	1776

* For comparison of the numbers in 1891 with the corrected averages for the ten years 1881-90, see Table 14.
† In consequence of changes of classification, the deaths from these diseases cannot be given for years prior to 1882.
‡ *See* note (†), Table 1.

TABLE 13 (*cont.*)—**Causes** of **Deaths** REGISTERED in **London** in each of the 11 Years 1881–1891; and in each Quarter of 1891.

YEARS	1881	1882	1883	1884	1885	1886	1887	1888	1889	1890	1891*	1891. QUARTER ENDING Apr. 4	July 4	Oct. 3	Jan. 2 1892
CAUSES OF DEATH.	364 Days.	364 Days.	364 Days.	371 Days.	364 Days.	364 Days.	364 Days.	364 Days.	364 Days.	371 Days.	364 Days.	91 Days	91 Days	91 Days	91 Days
Croup	695	873	827	751	674	523	597	494	480	491	404	140	94	67	103
Bronchitis	9874	11003	10011	9211	10352	11232	10326	10085	8970	12448	13136	5082	3458	1145	3451
Pneumonia	4167	4554	4431	4254	4642	4661	4797	4657	4061	6224	6915	2377	2316	744	1478
Pleurisy	240	269	292	261	327	261	323	267	239	329	366	130	111	57	68
Other Diseases of Respiratory System	1792	1695	1511	1484	1563	1587	1535	1493	1311	1694	1668	651	410	199	408
Dentition	853	705	768	796	766	693	623	603	545	628	520	160	152	106	102
Sore Throat, Quinsy†	–	115	113	102	98	89	107	102	92	120	92	24	28	23	17
Enteritis	442	373	364	336	365	518	509	464	570	745	758	119	118	369	152
Peritonitis	371	347	336	340	330	323	338	334	352	372	365	91	95	98	81
Diseases of Liver	1514	1529	1496	1555	1432	1524	1462	1330	1321	1373	1303	312	327	365	299
Others, Digestive System	1377	1424	1500	1662	1408	1561	1430	1530	1425	1540	1523	389	385	405	344
Diseases of Lymphatic System and Ductless Glands†	–	78	100	105	84	115	95	95	108	129	115	31	30	27	27
Diseases of Urinary System	1677	1732	1985	1878	1955	2049	2100	2116	2020	2209	2305	616	606	517	566
Diseases of Generative System	277	317	293	315	273	283	297	270	253	315	280	81	74	56	69
Accidents of Childbirth	228	225	180	193	182	200	163	169	166	212	286	90	78	65	53
Diseases of Locomotive System†	–	433	393	381	357	389	345	368	375	392	330	101	88	65	76
Diseases of Integumentary System†	–	245	253	279	256	273	273	258	217	293	325	86	79	73	87
ACCIDENT OR NEGLIGENCE.‡															
By Railways											125	45	20	26	34
By Vehicles or Horses											244	39	67	80	58
In Ships, &c. (not drowning)											21	2	6	6	7
In Building operations											42	12	8	11	11
In Conflagrations											30	9	3	7	11
By Burns, Scalds, Explosions	2576	2512	2552	2518	2303	2393	2548	2503	2475	2660	285	100	62	39	84
By Drowning											298	54	83	89	72
By Suffocation in Bed											626	179	137	116	194
By Poison or poisonous Vapours											98	25	18	27	28
Other or not stated Causes											254	248	263	216	227
Battle	–	2	–	1	–	–	–	–	–	–	–	–	–	–	–
HOMICIDE.‡															
Murder and Manslaughter	87	83	75	70	62	68	80	76	79	73	67	15	16	17	19
SUICIDE.‡															
Suicide	362	312	368	367	345	402	398	400	373	351	430	109	117	111	93
(EXECUTION.)															
Hanging	–	2	2	2	4	–	2	1	1	4	3	1	–	2	–
ALL OTHER CAUSES†	–	3458	3438	3500	3045	3258	3060	2923	2784	3003	2911	682	626	682	721

* For comparison of the numbers in 1891 with the corrected averages for the ten years 1881–90, see Table 14.
† In consequence of changes of classification, the deaths from these diseases cannot be given for years prior to 1882.
‡ The evidence at inquests is often insufficient to enable the coroner to certify whether a violent death resulted from accident, murder, manslaughter, or suicide. All such cases are classed under "accident or negligence."

TABLE **14.**—**Deaths** in several groups of **Ages** and from different **Causes** REGISTERED in **London** during the 52 Weeks of 1891.

CAUSES OF DEATH.	Corrected* Annual Averages, 1881–90.	TOTAL AT ALL AGES.	Under 5 Years.		5 and under 20.	20 and under 40.	40 and under 60.	60 and under 80.	80 and upwds.
			Under 1 Year.	1–5.					
ALL CAUSES‖	86,068·7	90,216	20,682	12,658	4976	11,240	17,156	19,392	4112
Small-pox †: Vaccinated	592·6	2	–	–	–	2	–	–	–
Small-pox †: Unvaccinated		3	2	–	1	–	–	–	–
Small-pox †: No Statement		3	1	–	–	1	1	–	–
Measles	2677·9	1807	337	1329	137	4	–	–	–
Scarlet Fever	1393·6	589	31	374	172	10	2	–	–
Typhus	34·7	8	–	–	1	4	3	–	–
Relapsing Fever‡	0·5	–	–	–	–	–	–	–	–
Influenza	74·0	2336	111	139	112	361	638	838	137
Whooping-cough	2904·8	2876	1062	1694	114	4	1	1	–
Diphtheria	1098·6	1361	74	810	432	26	17	2	–
Simple and Ill-defined Fever	72·5	42	7	9	11	4	9	2	–
Enteric Fever	784·8	547	2	26	211	237	60	11	–
Simple Cholera	98·9	73	44	9	3	3	9	5	–
Diarrhœa, Dysentery	3114·5	2437	1782	362	15	20	47	161	50
Remittent Fever‡	15·8	4	–	2	1	–	–	1	–
Hydrophobia	8·0	2	–	–	–	1	1	–	–
Glanders	1·6	4	–	–	–	3	–	1	–
Cowpox and Vaccination‡	9·3	14	13	1	–	–	–	–	–
Venereal Affections	565·0	472	304	21	3	48	59	34	3
Erysipelas	317·4	214	47	5	4	27	58	63	10
Pyæmia, Septicæmia‡	151·3	105	16	8	16	29	25	11	–
Puerperal Fever	306·7	222	–	–	5	203	14	–	–
Other Zymotic Diseases‡	90·5	73	18	28	4	8	7	8	–
Thrush	111·9	59	59	–	–	–	–	–	–
Worms & other Parasitical Diseases	19·4	15	–	2	5	5	2	1	–
Starvation, Want of Breast-milk	92·8	78	64	6	–	–	6	2	–
Alcoholism, Delirium Tremens	289·8	485	–	–	–	171	256	57	1
Rheumatic Fever, Rheumatism of Heart	555·3	384	1	12	126	124	87	32	2
Rheumatism		113	–	1	1	12	32	58	9
Gout		161	–	–	–	6	59	84	12
Rickets‡	208·7	267	86	176	5	–	–	–	–
Cancer	2864·9	3277	4	12	31	329	1528	1272	101
Tabes Mesenterica	1471·0	1277	791	347	91	27	15	6	–
Tubercular Meningitis	1369·4	1194	366	592	202	33	1	–	–
Phthisis	8751·3	8485	100	171	770	3967	2926	544	7
Scrofula, Tuberculosis	913·9	1035	343	301	169	124	79	17	2
Other Constitutional Diseases‡	540·4	640	31	29	54	117	197	195	17
Premature Birth	1993·2	2349	2348	1	–	–	–	–	–
Atelectasis‡	137·0	140	140	–	–	–	–	–	–
Congenital Malformations	362·8	394	358	24	7	4	1	–	–
Old Age	2709·5	2567	–	–	–	–	9	1143	1415
Apoplexy	2261·4	2306	25	16	18	143	742	1195	167
Epilepsy	384·5	437	12	12	54	113	183	104	9
Convulsions	2527·1	2385	2055	310	18	2	–	–	–
Other Diseases of Brain, &c.	4673·6	4675	642	627	281	474	894	1533	224
Diseases of Organs of Special Sense‡	123·6	134	34	25	42	15	10	6	2
Diseases of Circulatory System	6240·6	7340	121	61	430	972	2217	3075	464

* The annual averages have been raised for increase of population, and reduced for comparison with the deaths recorded in the 52 weeks of 1891; *see* also note ‡. For the population in each group of ages, estimated to the middle of 1891, *see* Table 19.

† Those cases of small-pox only are returned as "Vaccinated" or as "Unvaccinated" which are so certified by registered medical men. When the medical attendant does not certify that the deceased has, or has not, been vaccinated, or when the cause of death is not certified by a registered practitioner, the case is returned under the heading "No Statement."

‡ In consequence of changes of classification, the deaths from these diseases in years prior to 1882 cannot be ascertained; the corrected averages are therefore derived from the figures for the nine years 1882–90 only.

‖ *See* note † Table 1.

TABLE **14** (*continued*).—**Deaths** in several groups of **Ages** and from different **Causes** REGISTERED in **London** during the 52 Weeks of 1891.

CAUSES OF DEATH.	Corrected* Annual Averages, 1881–90.	TOTAL AT ALL AGES.	Under 5 Years.		5 and under 20.	20 and under 40.	40 and under 60.	60 and under 80.	80 and upwds.
			Under 1 Year.	1–5.					
Croup	673·3	404	61	283	60	–	–	–	–
Bronchitis	10887·3	13136	2873	1914	136	381	2139	4745	948
Pneumonia	4883·0	6915	1319	1599	292	967	1450	1164	124
Pleurisy	295·2	366	12	31	20	96	115	87	5
Other Diseases of Respiratory System	1646·8	1658	270	253	57	148	396	471	73
Dentition	712·8	520	291	229	–	–	–	–	–
Sore Throat, Quinsy‡	109·0	92	13	27	17	9	11	14	1
Enteritis	492·6	758	443	91	53	50	54	58	9
Peritonitis	362·0	365	24	20	71	111	71	57	11
Diseases of Liver	1528·1	1303	114	13	11	153	577	398	37
Others, Digestive System	1568·2	1523	346	86	100	206	332	399	54
Disease of Lymphatics, &c.‡	105·6	115	8	9	19	34	31	13	1
Diseases of Urinary System	2073·2	2305	26	45	91	400	814	809	120
Diseases of Generative System	304·2	280	3	5	6	100	114	49	3
Accidents of Childbirth	201·6	286	–	–	5	225	56	–	–
Diseases of Locomotive System‡	398·9	330	18	27	118	67	51	47	2
Diseases of Integumentary System‡	272·7	325	73	20	5	25	62	118	22
VIOLENT DEATHS.† (ACCIDENT.)									
By Railways	2633·0	125	–	–	17	43	51	13	1
By Vehicles or Horses		244	2	39	61	48	55	35	4
In Ships, Boats, Docks (exclusive of Drowning)		21	–	–	3	5	13	–	–
In Building Operations		42	–	–	4	15	16	7	–
In Conflagrations		30	3	8	7	5	5	2	–
By Burns, Scalds, Explosions		245	20	144	45	21	18	30	7
By Drowning		298	8	10	75	97	82	26	–
By Suffocation in Bed		626	608	11	2	2	–	2	1
By Poisons or Poisonous Vapours		98	1	9	10	29	35	14	–
Other or not stated Causes		954	163	82	102	163	210	197	37
(VIOLENCE OTHER THAN ACCIDENTAL.)									
Homicide	79·2	67	38	4	2	17	5	1	–
Suicide	386·7	430	–	–	12	158	179	79	2
Execution	1·9	3	–	–	–	2	1	–	–
OTHER CAUSES‡	3307·9	2911	2514	157	29	30	68	95	18

* *See* note * on preceding page.

† The evidence at inquests is often insufficient to enable the coroner to certify whether a violent death resulted from accident, murder, manslaughter, or suicide. All such cases are classed under "accident or negligence."

‡ *See* note ‡ on preceding page.

TABLE 15.—**Deaths** REGISTERED in the **London Registration Districts**, and **Mean Temperature** **Registered Sunshine** at **Greenwich**, in each of the 11 Years 1881–1891.

REGISTRATION DISTRICTS.	AREA in Acres.*	DENSITY, Persons to an Acre, 1891.	1881	1882	1883	1884	1885	1886	1887	1888	1889	1890	189
Mean Temperature	—	—	48°·7	49°·7	49°·4	50°·7	48°·6	48°·7	47°·8	47°·7	48°·8	49°·6	49°
Registered Sunshine in Hours	—	—	1296	1245	1241	1115	1261	1228	1401	1068	1156	1255	123
LONDON	77,410	54	81,431	83,015	81,108	82,448	80,978	82,691	82,443	79,244	76,162	89,268	90,2
1*a* PADDINGTON	1251	94	1871	1946	1974	1974	2040	2062	2023	2152	1925	2276	233
1*b* KENSINGTON	2190	76	2818	3074	3030	3033	3193	3101	3126	3082	2710	3309	363
2 FULHAM	4209	45	2472	2500	2618	2696	2761	2781	3201	3207	3183	3632	362
3 CHELSEA	861	112	1946	2057	2096	2065	2208	2144	2188	1997	1981	2064	221
4 ST. GEO. HANOVER SQ.	2051	65	3122	3086	3074	3040	2916	3103	2923	2855	2713	3090	297
5 WESTMINSTER	216	173	931	880	775	841	772	788	734	634	692	691	63
6 MARYLEBONE	1506	95	3326	3115	2993	2807	2853	2880	2657	2606	2363	2797	281
7 HAMPSTEAD	2248	30	619	666	690	841	770	774	771	778	835	1064	101
8 PANCRAS	2672	88	5225	5077	4988	5181	5005	5058	5085	4782	4664	5166	535
9 ISLINGTON	3107	103	5617	5643	5561	5515	5729	5510	5756	5206	5093	5962	629
10 HACKNEY	3935	58	3990	3683	3756	3964	3793	3789	3847	3823	3613	4399	440
11 ST. GILES	245	162	1019	1011	1009	1029	890	894	870	694	704	821	90
12 STRAND	433	63	997	1037	1026	1018	947	989	912	923	885	910	104
13 HOLBORN	816	173	3106	3187	2939	3039	2897	2964	3004	2937	2530	3088	327
14 LONDON CITY	731	52	1469	1450	1448	1390	1422	1343	1364	1308	1177	1380	129
15 SHOREDITCH	648	191	3001	3247	3023	2873	2950	3216	3071	2962	2636	3248	316
16 BETHNAL GREEN	755	171	3064	3088	3082	2849	2807	3000	2845	2852	2620	2876	308
17 WHITECHAPEL	405	184	2361	2344	2257	2200	2084	2261	2249	2181	2176	2492	243
18 ST. GEO.-IN-THE-EAST	244	187	1333	1197	1248	1185	1237	1187	1161	1120	1018	1309	110
19 STEPNEY	569	101	1279	1355	1396	1316	1297	1317	1333	1354	1266	1500	131
20 MILE END OLD TOWN	679	158	2258	2386	2263	2193	2091	2142	2129	1987	1948	2263	207
21 POPLAR	2648	63	3524	3979	3784	3719	3569	3617	3521	3521	3274	3989	374
22 ST. SAVIOUR SOUTHWARK	1170	173	4270	4754	4366	4647	4229	4535	4469	3597	3797	4171	417
23 ST. OLAVE SOUTHWARK	1728	79	3346	3514	3310	3382	3031	3397	3359	3168	3109	3461	354
24 LAMBETH	4060	68	5406	5687	5402	5451	5212	5481	5430	5182	5166	5819	607
25 WANDSWORTH	11707	26	3660	3845	4105	4203	4202	4424	4317	4330	3973	4905	477
26 CAMBERWELL	4450	53	3491	3777	3428	3845	3765	3995	4140	4187	4193	4624	486
27 GREENWICH	3801	44	3458	3026	2925	3193	3059	3005	3117	3017	3065	3320	347
28 LEWISHAM	10794	9	1051	1074	1054	1117	1129	1175	1176	1216	1123	1254	131
29 WOOLWICH	7281	15	1401	1330	1538	1439	1534	1711	1645	1559	1717	1906	199
METROPOLITAN HOSPITALS AND ASYLUMS OUTSIDE REGISTRATION LONDON †	—	—	—	—	—	403	536	28	20	27	14	1482	128

NOTE. — This Table is compiled from the Abstracts which appear in the Registrar General's Annual Reports, excepting for the year 189 for which the numbers are derived from the Weekly Returns embracing 52 weeks.

* These areas include 2718 acres of tidal water, or of the river Thames. For area of Greater London see Table 7.

† For the years 1884-89 the figures refer to the Metropolitan Asylum Small pox and Fever Hospitals only; for the years 1890 and 1891 th London County, London City, and Metropolitan Lunatic and Imbecile Asylums are added.

BLE 16.—LONDON. POPULATION; and BIRTHS and DEATHS in REGISTRATION DISTRICTS during the 52 Weeks of 1891.

REGISTRATION DISTRICTS.	Enumerated Population, 1891 (unrevised).	Total Births in 52 Weeks.	Total Deaths in 52 Weeks.	The DEATHS registered in the 52 Weeks include														
				Deaths of		Deaths from												
				Infants under 1 Year of Age.	Persons aged 60 Years and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus Fever.	Enteric (or Typhoid) Fever.	Simple continued Fever.	Diarrhœa.	Cholera.	Violence.	Inquest Cases.	Deaths in Public Institutions.	Uncertified Causes
LONDON	4211056	134003	90216	20682	23504	8	1807	589	1361	2876	8	547	42	2437	73	3223	6644	23052	93
WEST DISTRICTS	740725	19961	15412	3196	4609	–	122	61	199	409	1	88	6	498	16	531	1084	4644	8
NORTH DISTRICTS	994207	29950	19881	4361	5205	–	414	233	487	658	3	157	4	539	26	647	1433	4571	3
CENTRAL DISTRICTS	247140	7427	6507	1366	1385	–	277	10	103	175	1	41	4	134	2	316	606	2117	2
EAST DISTRICTS	705012	26801	16914	4338	4038	–	400	54	184	553	1	79	6	493	13	724	1805	4770	5
SOUTH DISTRICTS	1523972	49864	30221	7419	7832	1	594	224	386	1081	2	181	22	763	16	995	1700	5669	74
METROPOLITAN HOSPITALS AND ASYLUMS OUTSIDE REGISTRATION LONDON	—	—	1281	2	435	7	–	7	2	–	–	1	–	10	–	10	16	1281	
WEST DISTRICTS.																			
a. PADDINGTON	117838	2952	2339	462	734	–	6	3	30	72	–	22	–	66	1	113	182	687	
b. KENSINGTON	156321	3847	3628	647	1265	–	28	2	14	86	–	15	1	99	–	74	190	1294	
c. FULHAM	188877	6386	3627	1048	886	–	36	51	108	120	–	18	3	175	13	106	279	657	1
d. CHELSEA	96272	2818	2215	455	639	–	20	3	22	65	–	8	1	72	–	64	155	750	
e. ST. GEO. HANOVER SQ.	134122	3116	2976	454	894	–	22	1	24	45	1	22	1	74	2	151	240	1121	3
f. WESTMINSTER	37295	842	636	130	191	–	10	1	1	21	–	3	–	12	–	23	38	135	
NORTH DISTRICTS.																			
a. MARYLEBONE	142381	4504	2818	611	770	–	34	8	15	63	–	10	–	71	5	97	222	529	
b. HAMPSTEAD	68425	1514	1010	158	294	–	4	75	96	33	–	19	1	12	1	19	42	309	
c. PANCRAS	234437	7175	5358	1115	1380	–	69	7	60	164	–	33	–	152	9	257	479	1645	
d. ISLINGTON	319433	9797	6291	1468	1576	–	227	30	98	258	1	24	3	162	5	152	416	1095	
e. HACKNEY	229531	6960	4404	1009	1185	–	80	113	218	140	2	71	–	142	6	122	267	993	1
CENTRAL DISTRICTS.																			
a. ST. GILES	39778	1146	902	187	237	–	43	–	–	26	–	5	1	21	–	33	80	246	
b. STRAND	27473	552	1045	161	285	–	13	–	19	17	1	10	1	10	–	57	114	611	
c. HOLBORN	141544	5062	3270	899	578	–	206	8	41	121	–	14	2	94	1	94	239	559	
d. LONDON CITY	38345	667	1190	119	285	–	15	2	43	11	–	12	–	9	1	132	173	701	1
EAST DISTRICTS.																			
a. SHOREDITCH	124009	4593	3166	826	859	–	131	8	43	121	–	12	–	111	3	88	232	803	
b. BETHNAL GREEN	129134	4998	3083	808	719	–	98	14	30	126	–	13	1	81	3	87	238	707	
c. WHITECHAPEL	74462	3066	2431	513	429	–	35	4	32	37	–	22	2	54	2	196	363	1325	
d. ST. GEO.-IN-THE-EAST	45546	1954	1101	303	287	–	25	3	4	15	–	4	–	55	1	46	120	342	
e. STEPNEY	57599	1978	1316	422	224	–	26	2	16	59	–	3	–	72	1	75	161	274	
f. MILE END OLD TOWN	107565	4109	2074	570	578	–	31	2	20	47	–	7	1	52	2	53	196	232	
g. POPLAR	166697	6103	3743	896	942	–	54	21	39	148	1	18	2	68	1	179	495	987	
SOUTH DISTRICTS.																			
a. ST. SAVIOUR SOUTHWARK	202537	7216	4172	1283	841	–	79	12	45	220	–	4	3	129	1	116	271	337	1
b. ST. OLAVE SOUTHWARK	136456	5070	3149	854	768	–	67	19	23	100	–	21	2	76	2	215	327	963	9
c. LAMBETH	275202	9097	6073	1433	1652	–	129	76	126	238	1	40	7	170	1	217	312	1438	14
d. WANDSWORTH	307389	9718	4773	1237	1251	–	116	16	56	179	–	25	8	163	5	132	305	496	7
e. CAMBERWELL	235512	7338	4863	1047	1421	–	66	19	28	123	–	14	1	106	4	77	148	1224	10
f. GREENWICH	165417	5412	3476	762	930	1	47	75	91	110	1	69	–	73	–	118	171	753	10
g. LEWISHAM	94335	2469	1316	284	432	–	29	3	6	33	–	1	1	20	2	39	56	159	2
h. WOOLWICH	107324	3544	1999	499	527	–	61	4	11	78	–	7	–	26	1	81	110	299	8
METROPOLITAN HOSPITALS AND ASYLUMS OUTSIDE REGISTRATION LONDON	—	—	1281	2	435	7	–	7	2	–	–	1	–	10	–	10	16	1281	

TABLE 17. LONDON.—POPULATION; and BIRTHS and DEATHS in REGISTRATION SUB-DISTRICTS during th 52 Weeks of 1891.

REGISTRATION SUB-DISTRICTS.	Enumerated **Population**, 1891 (unrevised)	Total BIRTHS in 52 Weeks.	Total DEATHS in 52 Weeks.	The DEATHS registered in the 52 Weeks include														
				Deaths of		Deaths from											Inquest Cases.	Deaths in Public
				Infants under 1 Year of Age.	Persons aged 60 Years and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus Fever.	Enteric (or Typhoid) Fever.	Simple continued Fever.	Diarrhœa.	Cholera.	Violence.		
WEST DISTRICTS.																		
St. Mary Paddington *WHH*	84156	2420	1555	376	513	–	6	3	16	60	–	5	–	56	1	52	109	32
St. John Paddington *H* –	33632	532	775	86	221	–	–	–	14	12	–	17	–	10	–	61	73	36
Kensington Town *Ww*	118769	3115	2966	554	1065	–	20	2	12	77	–	11	1	92	–	52	157	114
Brompton *HH* – – –	47552	732	662	93	200	–	8	–	2	9	–	4	–	7	–	22	33	13
St. Peter Hammersmith –	8585	225	123	27	38	–	–	–	–	3	–	–	–	3	–	3	9	–
St. Paul Hammersmith *H*	88652	2685	1603	429	428	–	10	8	46	47	–	5	3	60	4	64	153	14
Fulham *Ww* – – –	91640	3476	1901	592	420	–	26	43	62	70	–	13	–	106	9	39	117	50
Kensal Town – – –	21787	708	308	101	56	–	3	1	1	20	–	–	1	12	–	6	28	–
Chelsea North *WHHHHH*	41657	1233	1235	186	391	–	14	–	4	28	–	3	–	30	–	27	71	61
Chelsea South *HHH* – –	32828	877	672	168	192	–	3	2	17	17	–	5	–	30	–	31	56	13
Mayfair *WH* – – –	23734	272	669	84	328	–	2	–	3	3	–	2	–	5	–	8	17	43
Belgrave *WHHHH* – –	54628	1338	1209	182	299	–	11	1	13	21	–	12	1	34	–	37	127	44
St. John Westminster *HH* –	34092	1061	624	163	145	–	9	–	4	12	1	2	–	26	2	20	41	2
St. Margaret Westmstr. *H* –	21668	445	474	75	122	–	–	–	4	9	–	6	–	9	–	36	55	21
St. James Westminster *WHH*	24993	512	424	78	149	–	4	1	1	15	–	2	–	10	–	15	26	10
St. Anne Soho *HHHHHH*–	12302	330	212	52	42	–	6	–	–	6	–	1	–	2	–	8	12	3
NORTH DISTRICTS.																		
All Souls (Myleb) *HHHHHHH*	24481	586	772	100	150	–	9	–	12	16	–	5	–	8	1	40	71	36
Cavendish Square *HHH* –	18220	220	213	29	79	–	1	1	–	2	–	1	–	2	–	6	13	
Rectory (Marylebone) *W* –	20019	534	395	79	150	–	4	2	1	5	–	1	–	3	–	5	23	10
St. Mary (Marylebone) *HHHH*	19238	1380	363	92	109	–	2	1	–	9	–	–	–	15	–	8	22	5
Christchurch (Marylebo.) *H*	33323	946	565	177	133	–	8	2	1	19	–	2	–	22	1	22	52	
St. John (Marylebone) *H* –	32100	838	510	134	149	–	10	2	1	12	–	1	–	21	3	16	41	
Hampstead *WwHHHHH* –	68425	1514	1010	158	294	–	4	75	96	33	–	19	1	12	1	19	49	30
Regent's Park *H* – –	36592	988	565	144	167	–	15	1	1	29	–	2	–	22	1	23	49	
Tottenham Court *wHHHH*	26319	683	969	126	197	–	9	–	36	11	–	9	–	13	2	30	58	61
Gray's Inn Lane *HHH* –	27448	837	666	130	138	–	21	1	3	26	–	12	–	13	–	6	91	19
Somers Town *HH* – –	32841	1097	647	170	128	–	7	–	3	22	–	4	–	29	1	13	74	6
Camden Town *WH* – –	15461	642	692	136	299	–	2	3	1	13	–	1	–	21	–	14	77	45
Kentish Town *W* – –	25776	2928	1828	409	451	–	15	2	16	63	–	5	–	54	5	54	130	31
Upper Holloway *WWWwHHH*	90272	2751	2458	442	725	–	83	12	54	80	–	10	2	56	2	67	152	104
Islington South-west *H* –	103537	3456	1900	553	374	–	79	9	13	94	1	7	1	57	1	45	146	1
Islington South-east – –	64411	1951	1037	271	234	–	28	4	11	36	–	2	–	24	1	27	76	–
Highbury *HHH* – –	59193	1639	896	202	243	–	37	5	20	48	–	5	–	25	1	13	42	3
Stoke Newington *H* – –	30925	837	451	94	163	–	15	3	1	13	–	2	–	14	2	10	24	
Stamford Hill – – –	17759	439	227	61	67	–	2	1	2	12	–	3	–	17	–	2	11	–
West Hackney *H* – –	42602	1220	722	176	183	–	13	2	19	27	–	7	–	17	1	26	59	10
Hackney *WwwH* – –	90486	3170	2316	464	600	–	35	103	191	52	1	55	–	66	2	57	116	88
South Hackney *wH* – –	41789	1294	688	214	172	–	15	4	5	26	1	4	–	28	1	20	57	
CENTRAL DISTRICTS.																		
St. George Bloomsbury –	16695	342	234	51	51	–	11	–	–	11	–	1	1	3	–	9	21	–
St. Giles South *WH* – –	13450	533	440	74	143	–	23	–	–	9	–	1	–	7	–	14	41	20
St. Giles North *H* – –	9633	271	228	62	43	–	9	–	–	6	–	3	–	11	–	10	18	4
St. Martin-in-the-Fields *HH*	14574	252	420	73	77	–	7	–	12	8	1	1	1	4	–	28	60	20
St. Mary-le-Strand *H* –	5706	130	115	23	37	–	1	–	–	1	–	1	–	1	–	6	14	1
St. Clement Danes *WH* –	7193	170	350	59	52	–	5	–	7	7	–	8	–	5	–	21	35	23
Strand Un. Work., Edmonton	–	–	160	6	119	–	–	–	–	1	–	–	–	–	–	2	5	16
St. Geo. the Martyr *HHHHHH*	17929	462	662	148	82	–	12	1	32	24	–	5	–	8	1	14	34	34
St. Andrew Eastern *W* –	8705	309	259	66	49	–	30	–	–	18	–	2	–	6	–	9	24	4
Saffron Hill *H* – – –	6614	146	137	36	27	–	12	2	–	6	–	–	–	2	–	9	19	–
St. James Clerkenwell –	16803	560	338	101	55	–	32	–	2	14	–	2	–	18	–	9	21	–
Amwell – – – –	16843	571	293	92	53	–	26	1	1	16	–	–	–	16	–	8	18	–
Pentonville – – – –	16824	550	283	94	43	–	23	–	4	11	–	–	–	9	–	4	16	–
Goswell Street – – –	15375	541	257	64	45	–	26	3	–	10	–	2	–	7	–	11	18	–
City Road *HHHL* – –	29148	1513	715	231	120	–	37	1	1	17	–	2	1	21	–	21	55	8
Whitecross Street – –	8278	290	153	52	19	–	7	–	–	3	–	1	1	4	–	7	23	–
Finsbury – – –	4985	120	84	15	22	–	1	–	1	–	–	–	–	1	–	2	11	–
Holborn Un. Work., Mitcham	–	–	89	–	63	–	–	–	–	–	–	–	–	2	–	–	–	8
St. Botolph *H* – – –	8944	246	149	39	53	–	2	–	2	3	–	–	–	1	–	3	9	–
Cripplegate – – – –	4373	79	56	5	22	–	1	–	–	–	–	–	–	–	–	1	4	–
St. Sepulchre *H* – – –	4408	79	750	42	95	–	10	1	37	3	–	9	–	4	1	29	117	67
St. Bride *W* – – –	6618	117	120	19	38	–	2	–	2	3	–	1	–	2	–	3	8	–
Allhallows Barking – –	10625	108	148	11	42	–	–	1	2	2	–	1	–	1	–	25	33	–
Broad Street *H* – – –	3377	38	48	3	27	–	–	–	–	–	–	–	–	1	–	1	2	–
City of London Asylum, Stone	–	–	19	–	8	–	–	–	–	–	–	1	–	–	–	–	–	1

Note.—The letters placed against the names of the sub-districts denote Public Institutions situated therein, namely:—*W*—Workhouse *w*—Workhouse Establishment receiving inmates from other Districts than that in which it stands; *H*—Hospital; *L*—Lunatic Asylum *L**—Private Lunatic Asylum in which paupers are received. For detailed list of the several Institutions, *see* Table 20.

LE 17 (*continued*).—LONDON.—POPULATION; and BIRTHS and DEATHS in REGISTRATION SUB-DISTRICTS, during the 52 Weeks of 1891.

REGISTRATION SUB-DISTRICTS.	Enumerated Population, 1891 (unrevised).	Total BIRTHS in 52 Weeks.	Total DEATHS in 52 Weeks.	The DEATHS registered in the 52 Weeks include															
				Deaths of		Deaths from											Inquest Cases.	Deaths in Public Institutions.	Uncertified Causes of Death.
				Infants under 1 Year of Age.	Persons aged 60 Years and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus Fever.	Enteric (or Typhoid) Fever.	Simple continued Fever.	Diarrhœa.	Cholera.	Violence.			
EAST DISTRICTS.																			
tch South *HL**	20098	602	446	95	96	-	27	1	-	15	-	1	-	7	1	11	41	89	3
New Town *w*	29313	1164	848	224	317	-	23	2	6	18	-	4	-	30	-	14	49	280	2
Old Town	28354	1043	562	183	106	-	40	1	3	28	-	4	-	27	-	17	40	-	1
ston *WH*	46244	1784	1310	324	340	-	41	4	34	60	-	3	-	47	2	46	102	434	3
l Green North *H*	51520	2083	1033	346	138	-	49	9	15	68	-	2	-	45	2	41	110	23	1
l Green South	33491	1360	594	220	87	-	17	3	5	21	-	2	-	13	1	18	57	-	1
l Green East *WHL**	44123	1575	1456	242	494	-	32	2	10	37	-	9	1	23	-	28	71	684	-
lds	22456	874	363	147	62	-	14	-	9	14	-	1	-	12	-	10	48	-	3
d New Town *W*	17908	975	677	136	174	-	7	-	8	10	-	-	1	22	1	10	49	446	2
napel Church *H*	20298	777	1164	165	154	-	9	3	14	9	-	21	-	14	1	164	231	879	-
an's Fields	13800	440	227	65	39	-	5	1	1	4	-	-	1	6	-	12	35	-	-
rge's North	37733	1642	605	225	96	-	20	2	3	9	-	2	-	38	1	33	87	-	8
u, St. Geo. East *W*	7813	332	496	74	191	-	5	1	1	6	-	2	-	17	-	13	33	342	-
ll *H*	10490	324	455	179	85	-	16	-	11	7	-	1	-	47	-	33	51	274	-
	14928	459	257	64	58	-	2	-	1	9	-	1	-	8	-	13	41	-	3
use	32181	1195	604	179	131	-	8	2	4	43	-	1	-	17	1	26	69	-	7
d Old Town Western *H*	38620	1701	617	217	132	-	8	1	5	16	-	2	-	18	1	12	64	3	15
d Old Tn. Eastn. *WwwH*	68945	2408	1457	353	446	-	23	1	15	31	-	5	1	34	1	41	132	329	3
*	40378	1409	691	187	143	-	8	3	8	33	-	3	-	16	-	30	50	60	-
y *wwwH*	70002	2666	2051	445	570	-	28	14	25	74	1	9	2	37	1	77	252	845	2
WWH	56317	2028	1001	264	229	-	18	4	6	41	-	6	-	15	-	72	193	82	-
OUTH DISTRICTS.																			
iurch Southwark *WH*	13264	434	327	84	93	-	5	1	1	13	-	-	1	7	-	15	30	40	11
our Southwark	13898	425	256	75	56	-	3	-	1	9	-	-	-	7	-	14	29	-	10
oad	21837	808	493	120	69	-	13	1	3	20	-	-	-	16	-	13	36	-	6
h Road *WH*	16624	623	511	155	38	-	11	-	14	46	-	1	1	20	-	12	37	165	9
Road *HL*	21221	734	421	131	81	-	13	3	1	19	-	-	-	8	-	14	36	13	6
Newington	26501	962	500	160	87	-	11	2	8	30	-	1	1	20	-	8	31	-	14
er Walworth *W*	61296	2263	1271	382	309	-	14	4	8	58	-	-	-	37	1	30	57	119	32
y Newington	27866	967	483	176	105	-	4	1	9	25	-	2	-	14	-	10	15	-	16
re Southwark *WH*	12694	404	843	112	131	-	10	6	15	8	-	7	-	10	-	130	167	579	12
Market	14999	501	317	107	36	-	13	3	1	12	-	1	-	14	-	10	22	-	20
y Magdalen *W*	15661	622	457	109	129	-	16	2	-	12	-	1	1	6	-	5	21	132	16
es Bermondsey	54028	1987	982	303	200	-	22	6	6	42	-	7	-	18	1	27	54	-	28
ithe *WH*	39074	1466	947	243	272	-	6	2	1	25	-	5	1	28	1	43	63	252	20
o Road First *H*	14031	501	368	108	50	-	10	-	5	17	-	-	2	23	-	13	24	48	16
o Road Second *H*	14644	930	333	122	55	-	14	-	2	29	-	-	-	10	-	13	22	19	7
h Church First *H*	18024	605	939	158	110	-	15	3	44	34	-	11	1	27	-	117	137	599	7
h Church Second *WW*	39147	1630	1366	299	505	-	29	3	4	44	-	2	2	39	1	24	45	635	34
gton First *H*	50586	1722	879	252	249	-	18	3	6	28	-	5	-	28	-	20	33	8	28
gton Second	39708	1069	657	136	233	-	8	3	5	25	-	5	1	16	-	13	21	-	19
w	73105	2014	1241	291	359	-	30	63	58	51	1	15	1	21	-	11	17	121	32
d *W*	25857	626	290	67	91	-	5	1	2	10	-	2	-	6	-	6	13	8	4
attersea	67144	2550	1075	381	174	-	26	5	11	46	-	8	1	55	4	37	93	-	26
attersea *WwH*	83314	2687	1544	355	442	-	11	5	24	58	-	7	3	45	-	33	76	395	17
n *H*	43698	1144	598	147	177	-	33	1	1	20	-	4	1	13	-	17	40	3	16
worth *WH*	46720	1597	689	190	163	-	10	2	19	18	-	3	2	24	1	25	53	32	2
	17771	479	215	46	63	-	-	1	-	8	-	1	-	15	-	10	16	-	2
am *w*	48742	1261	652	138	232	-	36	2	1	29	-	2	1	11	-	10	27	66	16
h	6809	65	66	8	31	-	1	-	-	-	-	-	-	1	-	5	5	-	1
rwell *WwL*L**	81654	2360	2275	361	848	-	9	6	18	37	-	4	1	31	1	21	43	1133	25
m *W*	83483	2685	1894	400	862	-	33	6	5	31	-	6	-	48	-	33	57	91	35
rge (Camberwell)	63366	2228	1128	338	190	-	23	7	5	55	-	4	-	26	3	18	43	-	42
d North	108173	3578	2007	511	442	1	27	68	83	76	1	55	-	52	-	60	91	193	85
d Central *w*																			
d South																			
ich West *H*	22007	651	424	98	127	-	16	-	4	12	-	8	-	6	-	22	31	23	11
ich East *WHH*	35237	1183	1045	153	361	-	4	7	4	22	-	6	-	15	-	36	49	537	8
H	5632	141	63	9	24	-	1	-	-	2	-	-	-	2	-	1	1	1	1
	23541	458	276	50	101	-	6	-	-	4	-	-	-	2	-	7	10	15	7
am *WH*	30950	938	560	125	184	-	17	1	4	7	-	1	1	9	1	20	28	135	10
am *H*	34162	932	417	100	123	-	5	2	2	20	-	-	-	7	1	11	17	8	7
n *HH*	14040	332	232	57	53	-	3	1	3	17	-	3	-	3	-	10	11	31	8
ch Dockyard	19606	622	315	104	71	-	10	1	1	22	-	1	-	1	-	16	24	-	19
ch Arsenal *HHHH*	21242	723	404	102	83	-	16	1	1	15	-	-	-	4	-	24	33	11	16
ead West *H*	15869	463	222	52	72	-	6	-	1	5	-	1	-	9	1	5	7	-	14
ead East *W*	36587	1404	826	184	248	-	26	1	5	19	-	2	-	9	-	26	35	257	26
d Asylum				244	-	71	-	-	-	-	-	-	-	1	-	-	-	244	-
m Asylum				161	-	77	-	-	-	-	-	-	-	2	-	-	-	161	-
ill Asylum				97	-	15	-	-	-	-	-	1	-	1	-	3	7	97	-
l Ships and Camp				7	2	-	7	-	-	-	-	-	-	-	-	-	-	7	-
n Asylum				113	-	41	-	-	-	-	-	-	-	4	-	-	-	113	-
l Asylum				180	-	66	-	-	-	-	-	-	-	2	-	2	4	180	-
Hatch Asylum				224	-	60	-	-	-	-	-	-	-	-	-	5	5	224	-
nore Hill Hospital				9	-	-	-	7	2	-	-	-	-	-	-	-	-	9	-
len Asylum				246	-	105	-	-	-	-	-	-	-	-	-	-	-	246	-

TABLE 18.—OUTER RING (excluding Metropolitan Workhouses, Hospitals, and Asylums).—AREA; POPULA
BIRTHS and DEATHS Registered during the 52 Weeks ending Saturday, 2nd January 1892.

District and Sub-district Numbers.	REGISTRATION SUB-DISTRICTS.	Area in Acres, including Tidal Water and Foreshore.	Enumerated Population, 1891 (unrevised).	BIRTHS.	DEATHS.	The DEATHS registered in the 52 Weeks include											
						Deaths of		Deaths from									
						Infants under 1 Year of Age.	Persons aged 60 Years & upwds.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Fever.	Diarrhœa.	Cholera.	Violence.	Inquest Cases.
	LONDON—OUTER RING	370,924	1,422,276	44,701	21,738	5540	6161	–	290	112	347	658	167	558	10	678	1278
30 : 1	Carshalton *wHH* – –	12228	26108	605	237	62	92	–	7	1	4	1	1	3	–	18	18
2	Epsom, *part of* * *WwH*	9971	12503	239	242	27	92	–	4	–	15	–	–	2	–	7	9
37 : 1	Godstone, *part of* * *W*	2754	1598	49	10	–	5	–	–	–	–	–	–	–	–	–	–
38 : 1	Croydon *WwHH* – –	20851	128701	3415	1847	374	631	–	13	6	26	22	11	40	–	38	121
2	Mitcham *w* – – –	11697	23038	672	265	63	78	–	3	1	–	11	1	10	2	6	18
39 : 1	Wimbledon *HHH* –	3220	25758	714	335	81	90	–	2	1	7	10	1	9	–	12	18
2	Kingston *WHH* – –	8549	44765	1326	790	175	283	–	10	2	9	23	2	12	–	26	41
3	Esher, *part of* * *HH* –	6601	12059	319	181	29	51	–	4	–	10	7	–	1	–	4	11
4	Hampton *H* – –	4573	18325	482	249	54	83	–	–	–	1	19	–	13	–	16	18
40 : 1	Richmond *WH* – –	2272	25339	614	462	92	165	–	24	2	2	18	3	10	–	26	33
2	Mortlake *H* – – –	2941	16159	447	233	70	64	–	2	1	1	4	1	7	–	13	25
41 : 1	Bromley, *pt. of* * *HHHH*	15639	45783	1240	527	133	163	–	1	2	8	14	3	8	2	17	21
2	Chislehurst, *pt. of* *WHH*	14307	20372	570	322	70	117	–	6	–	2	10	1	3	–	7	13
42 : 1	Bexley *H* – – –	13437	30587	1059	424	100	151	–	–	–	2	22	1	9	–	18	27
2	Dartford Workh., *pt. of* *	—	—	6	29	1	21	–	–	–	–	–	2	–	–	–	–
124 : 1	Sunbury *w* – – –	11055	13635	327	199	34	65	–	2	1	–	3	–	4	–	8	18
2	Staines *WH* – – –	13277	13220	410	205	49	85	–	–	3	1	2	3	3	–	10	16
125 : 1	Hillingdon *WHH* –	6029	12237	367	259	46	117	–	2	–	–	5	1	–	–	9	24
2	Uxbridge – – –	6178	5416	165	86	19	29	–	–	–	–	1	2	2	–	4	10
3	Hayes *wH* – – –	14587	12618	347	153	40	38	–	1	1	3	4	1	–	–	6	12
126 : 1	Isleworth *WHH* – –	7008	26271	767	527	121	201	–	–	2	3	17	3	11	–	24	49
2	Twickenham *HH* –	2477	16226	413	245	63	76	–	2	1	6	7	2	2	–	6	14
3	Brentford *HHHL* –	4345	37774	1090	592	143	188	–	1	5	6	16	5	18	–	20	41
4	Chiswick – – –	1340	21934	651	348	89	102	–	9	–	–	11	6	23	–	11	32
5	Acton *wH* – – –	6083	30946	948	479	126	146	–	8	3	2	6	3	26	–	17	39
127 : 1	Harrow *HH* – –	13809	15710	430	207	34	78	–	–	1	7	2	–	3	–	5	14
2	Edgware *HH* – –	6994	3849	85	45	8	10	–	–	–	–	–	–	–	–	3	9
3	Willesden *H* – –	4383	61243	2035	848	263	139	–	5	2	7	34	4	23	2	22	68
4	Hendon *W* – – –	8382	15835	521	311	77	97	–	–	2	2	5	1	12	–	15	23
137 : 1	Bushey *H* – – –	331	7731	220	102	21	38	–	–	–	3	–	1	–	–	1	3
2	Watford Workh., *pt. of* *	—	—	1	8	–	2	–	–	–	–	–	–	–	–	–	–
128 : 1	South Mimms *H* – –	15599	8454	231	125	27	47	–	–	1	1	2	–	3	–	10	10
2	Barnet *WHH* – –	5433	11765	297	161	26	65	–	–	–	11	4	–	2	–	9	15
3	Finchley *HH* – –	4688	25813	710	281	64	88	–	5	1	4	11	2	3	–	10	16
135 : 1	Hatfield, *part of* *	3303	582	12	3	1	1	–	–	–	–	–	–	–	–	–	1
129 : 1	Hornsey *HH* – –	3039	61404	1539	708	156	233	–	8	3	8	23	3	14	1	9	44
2	Tottenham *H* – –	4642	97166	3447	1471	417	318	–	8	20	20	63	20	60	–	47	104
3	Edmonton *Ww* – –	7483	36350	1253	619	150	209	–	4	7	5	11	6	28	–	24	49
4	Enfield *WH* – – –	12653	31799	1085	437	101	127	–	5	2	6	15	6	8	–	13	25
5	Waltham Abbey – –	11017	6065	203	95	23	39	–	–	–	1	13	1	2	–	–	1
6	Cheshunt *H* – –	8480	9520	339	146	29	51	–	1	2	1	4	1	6	–	8	11
136 : 1	Stratford *H* – – –	882	42932	1627	841	255	167	–	28	2	8	50	16	16	–	37	47
2	Plaistow *HHH* – –	4055	57848	6229	2633	907	422	–	28	25	40	110	33	63	1	65	98
3	Canning Town *H* – –		54750														
4	Forest Gate *w* – –		49322														
5	East Ham *ww* – –	3293	32710	1349	479	165	19	–	27	4	8	11	3	21	–	14	26
6	Leyton *WWwL* – –	4372	70188	2338	1357	304	398	–	18	3	65	26	5	17	1	20	31
7	Walthamstow *HH* –	6520	57330	1999	818	246	193	–	13	1	26	23	5	29	–	17	21
137 : 1	Chigwell, *part of* * *H* –	11761	12941	359	227	45	76	–	–	–	4	12	1	6	–	9	13
2	Epping Work., *pt. of* * –	—	—	–	5	–	2	–	–	–	–	–	–	–	–	–	–
139 : 1	Romford, *part of* * *W* –	6730	4324	152	87	17	29	–	–	–	1	1	–	1	–	1	1
2	Ilford – – – –	8493	10913	307	138	33	31	–	4	–	8	2	3	3	1	4	9
3	Barking Town – –	4127	14301	640	280	95	39	–	35	4	3	3	3	12	–	11	11

* The parts of sub-districts included within that portion of the Metropolitan Police District which forms the Outer Ring are as follo
39 : 2, the whole of Epsom sub-district, except the parishes of Ashstead and Headley (pop. 1766); 37 : 1, the two parishes of Warlingham and P
in Godstone sub-district: 39 : 3, the whole of Esher sub-district, except the parish of Esher (pop. 2232); 41 : 1, the whole of Bromley sub-di
except the two parishes of Cudham and Knockholt (pop. 1975); 41 : 2, the whole of Chislehurst sub-district, except the parish of Chelsfield (pop.
135 : 1, only the parish of Northaw in Hatfield sub-district; 137 : 1, the whole of Chigwell sub-district, except the parish of Theydon
(pop. 1079); 139 : 1, only the parish of Dagenham in Romford sub-district. Deaths belonging to the Outer Ring occurring in wor khouses in Dar
42 : 2, Watford, 137 : 2, and Epping, 137 : 2, are also included.

BLE 19.—**Temperature** at **Greenwich**; **Population**; **Total Deaths**, and **Deaths** at **Seven groups of Ages**, in **London**, in each Week of 1891.

PULATION estimated to the middle of 1891 - -				4,221,452	109,117	393,679	1,290,351	1,429,747	728,123	253,041	17,394
Week ending	Temperature. Mean.	Highest Reading.	Lowest Reading.	Ages at Death. All Ages.	Under 1 Year.	1–5	5–20	20–40	40–60	60–80	80 and upwards.
Year (of 52 Weeks)	° 48·4	° 85·1	° 12·0	90,216	20,682	12,658	4,976	11,240	17,156	19,392	4,112
March Quarter (13 Weeks).	37·6	62·1	12·0	25,267	4,909	3,543	1,294	3,093	5,062	6,070	1,296
June „ (13 Weeks).	51·6	84·3	30·8	25,030	4,652	3,316	1,362	3,342	5,060	6,022	1,276
September „ (13 Weeks).	59·3	85·1	40·2	18,354	5,919	2,409	1,061	2,198	3,141	3,022	604
December „ (13 Weeks).	45·0	68·3	17·3	21,565	5,202	3,390	1,259	2,607	3,893	4,278	936
1891.											
January 10	27·5	37·3	12·0	2505	397	358	121	298	488	705	138
„ 17	30·9	40·5	16·9	2513	417	289	104	296	595	659	153
„ 24	35·3	48·7	20·1	2212	401	297	78	233	450	615	138
„ 31	44·2	52·9	35·0	1903	370	262	87	206	390	471	117
February 7	41·1	49·1	29·6	1638	324	227	102	210	302	387	86
„ 14	38·4	49·3	29·6	1673	349	219	89	241	332	363	80
„ 21	36·6	50·4	28·5	1762	391	259	102	217	313	397	83
„ 28	37·9	62·1	25·9	2042	410	318	96	260	397	465	96
March 7	46·6	59·6	35·2	2019	424	299	108	244	418	440	86
„ 14	35·3	45·2	23·1	1783	377	245	90	247	371	379	74
„ 21	38·9	47·8	29·2	1751	373	254	100	205	326	409	84
„ 28	40·2	58·0	23·4	1667	325	242	102	213	322	383	80
April 4	41·5	54·8	29·0	1799	351	274	115	223	358	397	81
April 11	42·6	60·4	33·3	1722	372	246	107	225	310	382	80
„ 18	43·9	58·2	30·8	1766	342	243	101	216	375	400	89
„ 25	44·4	58·0	33·7	1809	357	259	91	254	352	417	79
May 2	49·1	66·6	31·8	2006	394	244	92	264	419	490	103
„ 9	51·3	68·0	35·3	2069	356	286	95	273	444	512	103
„ 16	54·5	80·5	34·9	2245	396	299	115	333	433	545	121
„ 23	45·5	60·7	30·9	2235	384	262	134	307	464	564	120
„ 30	48·7	67·3	38·0	2337	397	310	125	262	513	604	126
June 6	58·9	73·8	41·0	2189	386	280	114	286	413	581	129
„ 13	54·5	78·1	41·0	1886	332	243	111	229	394	476	101
„ 20	62·2	84·8	48·1	1865	345	238	100	273	363	441	105
„ 27	64·0	79·6	51·0	1538	313	221	90	218	303	325	68
July 4	62·4	79·6	50·3	1363	278	185	87	202	274	285	52
July 11	59·2	73·8	49·9	1352	350	193	88	156	284	235	46
„ 18	63·4	85·1	48·1	1373	395	169	77	196	237	254	45
„ 25	60·9	74·4	51·2	1462	477	195	87	192	244	229	38
August 1	57·0	76·1	45·4	1662	644	225	77	187	247	244	38
„ 8	57·4	75·0	47·1	1646	667	208	87	152	237	244	51
„ 15	61·4	79·5	49·7	1627	574	200	78	168	292	250	65
„ 22	58·0	73·4	47·3	1445	491	189	85	157	251	222	50
„ 29	58·4	72·6	47·6	1403	463	190	76	161	240	219	54
September 5	57·4	71·8	43·2	1299	384	165	71	157	237	242	43
„ 12	62·9	81·9	47·6	1217	357	149	78	154	216	220	43
„ 19	59·9	82·1	44·3	1274	370	169	84	170	215	221	45
„ 26	55·7	69·1	44·5	1322	391	168	92	177	220	231	43
October 3	55·8	71·3	40·2	1272	356	189	81	171	221	211	43
October 10	54·5	68·3	39·5	1395	401	192	83	199	236	231	53
„ 17	51·5	62·9	41·3	1321	366	184	91	161	233	227	59
„ 24	50·5	60·2	42·7	1428	409	206	92	187	250	228	56
„ 31	46·2	54·6	29·9	1348	384	186	83	181	238	231	45
November 7	45·2	57·4	35·5	1446	419	214	76	194	237	257	49
„ 14	43·8	53·4	31·8	1590	404	258	101	185	274	306	62
„ 21	46·5	56·4	35·5	1629	396	268	86	203	288	310	78
„ 28	37·9	45·4	29·8	1612	405	244	106	181	277	333	66
December 5	46·5	57·0	34·8	1715	409	297	96	207	277	350	79
„ 12	44·9	55·3	31·9	1462	334	237	87	184	268	289	63
„ 19	40·7	53·2	23·3	1449	363	216	95	161	266	274	74
„ 26	29·1	48·4	17·3	1771	333	316	108	240	352	353	69
January 2	43·0	54·0	30·1	3399	579	572	155	324	697	889	183

TABLE 20.—Deaths in 196 Public Institutio

	DEATHS.		
	Total.	Males.	Females.
TOTAL DEATHS IN 196 PUBLIC INSTITUTIONS	23052	13018	10034
72 WORKHOUSES AND WORKHOUSE INFIRMARIES	12473	6837	5636
7 METROPOLITAN ASYLUM HOSPITALS	973	472	501
59 GENERAL HOSPITALS	6840	4123	2717
27 HOSPITALS FOR SPECIAL DISEASES	721	395	326
7 LYING-IN HOSPITALS — *Women*	13	-	13
7 LYING-IN HOSPITALS — *Children*	78	46	32
6 MILITARY AND NAVAL HOSPITALS	176	173	3
3 HOSPITALS FOR FOREIGNERS	180	132	48
15 LUNATIC AND IMBECILE ASYLUMS	1598	840	758

PUBLIC INSTITUTIONS.	SUB-DISTRICTS.			
WORKHOUSES AND WORKHOUSE INFIRMARIES.				
Paddington Workhouse	1*a*; 1. St. Mary Paddington	55	22	33
Paddington Infirmary	1*a*; 1. St. Mary Paddington	202	108	94
Kensington Workhouse	1*b*; 1. Kensington Town	2	1	1
Kensington Infirmary	1*b*; 1. Kensington Town	528	272	256
Marylebone Infirmary	1*b*; 1. *Kensington Town*	613	321	292
Fulham Workhouse	2; 3. Fulham	21	14	7
Fulham Infirmary	2; 3. Fulham	369	181	188
Chelsea Workhouse	3; 2. Chelsea North	42	14	28
Chelsea Infirmary	3; 2. Chelsea North	299	173	126
St. George's Workhouse	4; 1. Mayfair	7	5	2
St. George's Infirmary	4; 1. Mayfair	426	250	176
St. George's Workhouse (Wallis's Yard)	4; 2. Belgrave	4	1	3
Westminster Workhouse	5; 1. St. James Westmr.	97	45	52
Marylebone Workhouse	6; 3. Rectory Marylebone	106	31	75
Hampstead Workhouse	7; 1. Hampstead	67	38	29
Central London Sick Asylum	8; 2. *Tottenham Court*	213	122	91
Pancras Workhouse	8; 5. Camden Town	401	156	245
Pancras Infirmary	8; 6. Kentish Town	319	182	137
Islington Workhouse (St. John's Road)	9; 1. Upper Holloway	30	18	12
Islington Infirmary (St. John's Road)	9; 1. Upper Holloway	539	288	251
Islington Workhouse (Cornwallis Road)	9; 1. Upper Holloway	20	13	7
Islington Work. Sch.	9; 1. Upper Holloway	2	1	1
Holborn Infirmary	9; 1. *Upper Holloway*	236	123	113
Hackney Workhouse	10; 4. Hackney	15	8	7
Hackney Infirmary	10; 4. Hackney	376	214	162
City of London Workhouse	10; 4. *Hackney*	22	8	14
Bethnal Gn. Overflow W.	10; 5. *South Hackney*	2	2	-
St. Giles Workhouse	11; 2. St. Giles South	195	126	69
Strand Workhouse	12; 3. St. Clement Danes	23	13	10
Strand Workhouse	129; 3. *Edmonton*	160	94	66
Holborn Workhouse	13; 2. St. Andrew Eastern	44	29	15
Holborn Workhouse	38; 2. *Mitcham*	89	56	33
City of London Workh.	14; 4. St. Bride	3	2	1
Holborn Workhouse	15; 2. *Hoxton New Town*	280	127	153
Shoreditch Workhouse	15; 4. Haggerston	2	1	1
Shoreditch Infirmary	15; 4. Haggerston	371	188	183
Bethnal Green Workh.	16; 3. Bethnal Green East	538	278	260
Whitechapel Infirmary	17; 2. Mile End New Town	446	281	165
St. George-in-the-East Workhouse	18; 2. St. John	8	2	6
St. George-in-the-East Infirmary	18; 2. St. John	334	176	158
Mile End Workhouse	20; 2. Mile End O. T. East	2	2	-
Mile End Infirmary	20; 2. Mile End O. T. East	250	126	124

PUBLIC INSTITUTIONS.	SUB-DISTRICTS.	DEATH	
		Total.	Males.
WORKHOUSES AND WORKHOUSE INFIRMARIES—*continued.*			
Mile End Workh. School	20; 2. Mile End O.T. East	1	-
Whitechapel Workhouse	20; 2. *Mile End O.T. East*	1	-
City of London Infirmary	20; 2. *Mile End O. T. East.* part of	75	9
City of London Infirmary	21; 2. *Bromley* part of	170	125
Poplar and Stepney Sick Asylum	21; 2. *Bromley*	536	332
Stepney W. (Aged & Infirm)	21; 2. *Bromley*	64	29
Poplar Workhouse	21; 3. Poplar	81	56
North Street Infirmary	21; 3. Poplar	1	1
St. Saviour's Workhouse	22; 1. Christch. Southwrk.	40	40
St. Saviour's Workhouse	22; 4. Borough Road	8	2
St. Saviour's Workhouse	22; 7. St. Peter Walworth	119	52
St. Olave's Workhouse	23; 1. St. Olave	43	29
St. Olave's Workhouse	23; 3. St. Mary Magdalen	132	74
St. Olave's Infirmary	23; 5. Rotherhithe	251	149
Lambeth Workhouse (Renfrew Road)	24; 4. Lambeth Church 2nd	50	23
Lambeth Infirmary (Brook Street)	24; 4. Lambeth Church 2nd	85	313
Lambeth Work. School	24; 8. Norwood	8	4
Wandsworth Infirmary	25; 2. West Battersea	387	201
Westminster Indus. Sch.	25; 2. *West Battersea*	1	-
Wandsworth Workhouse	25; 4. Wandsworth	18	13
St. Anne's Home (Pancras W.)	25; 6. *Streatham*	66	66
Camberwell Workhouse	26; 2. Camberwell	128	57
Camberwell Infirmary	26; 2. Camberwell	266	160
St. Saviour's Infirmary	26; 2. *Camberwell*	650	393
Camberwell W. (Gordon Road)	26; 3. Peckham	89	53
Camberwell W. (Willow-brook Road)	26; 3. Peckham	2	2
Greenwich Workhouse	27; 5. Greenwich East	72	29
Greenwich Infirmary	27; 5. Greenwich East	335	189
Lewisham Workhouse	28; 3. Lewisham	135	83
Woolwich Workhouse	29; 5. Plumstead East	2	2
Woolwich Infirmary	29; 5. Plumstead East	255	134
METROPOLITAN ASYLUM HOSPITALS.			
Western	2; 3. *Fulham*	118	49
North-Western	7; 1. *Hampstead*	184	89
Eastern	10; 4. *Hackney*	341	168
South-Western	24; 7. *Brixton*	121	51
South-Eastern	27; 2. *Deptford Central*	193	104
Hospital Ships	42; 2. *Dartford*	7	6
Northern	129; 3. *Edmonton*	9	5
GENERAL HOSPITALS.			
For Children	1*a*; 1. St. Mary Paddington	62	25
St. Mary's	1*a*; 2. St. John Paddington	363	227
Queen's Jubilee	1*b*; 2. Brompton	11	7
West London	2; 2. St. Paul Hammersm.	149	87
St. Camillo's	3; 2. Chelsea North	6	6
Victoria (*Children*)	3; 3. Chelsea South	123	68
Cheyne (*Children*)	3; 3. Chelsea South	10	9
St. George's	4; 2. Belgrave	439	270
Belgrave (*Children*)	4; 2. Belgrave	3	3
Westminster	4; 4. St. Margaret Westm.	217	142
Home Hospital	5; 2. St. Anne Soho	4	3
Middlesex	6; 1. All Souls Marylebone	360	201
St. Elizabeth's Home	6; 1. All Souls Marylebone	3	-
Ladies'	6; 2. Cavendish Square	1	-
Samaritan Free	6; 4. St. Mary Marylebone	17	-

NOTE.—Institutions in which no deaths occurred during the year are not shown in the Table. The Workhouse Establishments printed *italics* receive inmates from other Districts than those in which they are situated.

gistered during the 52 Weeks of 1891.

PUBLIC INSTITUTIONS.	SUB-DISTRICTS.	DEATHS. Total.	Males.	Females.
ENERAL HOSPITALS—*continued.*				
Incurables	6; 5. Christchurch	1	-	1
Peter's Home, Kilburn	7; 1. Hampstead	17	1	16
ne Hospital	7; 1. Hampstead	10	5	5
versity College	8; 2. Tottenham Court	383	229	154
ne Hospital	8; 2. Tottenham Court	13	6	7
lical & Surgical Home	8; 2. Tottenham Court	1	1	-
al Free	8; 3. Gray's Inn Lane	187	126	61
nperance	8; 4. Somers Town	52	35	17
th-West London	8; 5. Camden Town	53	32	21
at Northern Central	9; 1. Upper Holloway	116	70	46
ifred Ho. (Ch.Conv. osp.)	9; 1. Upper Holloway	1	1	-
dmay Memorial	9; 4. Highbury	27	16	11
lid Home	9; 4. Highbury	1	-	1
Incurables	9; 4. Highbury	9	4	5
lid Asylum	10; 1. Stoke Newington	2	-	2
ropolitan Free	10; 3. West Hackney	105	63	42
ish Home for Incur.	10; 5. South Hackney	3	2	1
ring Cross	12; 1. St. Martin-in-the-Fields	205	134	71
's College	12; 3. St. Clement Danes	208	110	98
lon Homœopathic	13; 1. St. George the Martyr	53	29	24
John and St. Eliza- th	13; 1. St. George the Martyr	35	-	35
Children	13; 1. St. George the Martyr	209	115	94
Police	14; 1. St. Botolph	1	1	-
Bartholomew's	14; 3. St. Sepulchre	678	432	246
vent	15; 1. Shoreditch South	8	4	4
h-Eastern (*Children*)	15; 4. Haggerston	61	40	21
may Medical Mission	16; 1. Bethnal Green N.	23	14	9
lon	17; 3. Whitechapel Church	879	522	357
London (*Children*)	19; 1. Shadwell	274	160	114
ar	21; 2. Bromley	31	29	2
ina (*Children*)	22; 4. Borough Road	157	90	67
's	23; 1. St. Olave	536	350	186
Gomm Accid. Hosp.	23; 5. Rotherhithe	1	1	-
l Infirmary (*Women* d *Children*)	24; 1. Waterloo 1st	48	26	22
Thomas's	24; 3. Lambeth Church 1st	599	385	214
ngbroke House Hosp.	25; 2. West Battersea	7	3	4
sh Home for In- rables	25; 3. Clapham	3	3	-
l, for Incurables	25; 4. Wandsworth	14	5	9
er Hospital	27; 4. Greenwich West	23	13	10
ge Hospital	28; 1. Eltham	1	-	1
ohn's	28; 2. Lee	15	4	11
e for Sick Children	28; 4. Sydenham	8	5	3
ge Hospital	29; 1. Charlton	8	6	2
ge Hospital	29; 3. Woolwich Arsenal	6	3	3
HOSPITALS FOR SPECIAL DISEASES.				
Hospital	1a; 1. St. Mary Paddington	5	2	3
umption & Diseases Chest	1b; 2. Brompton	140	77	63
		140	109	31
er	3; 2. Chelsea North	105	29	76
Women	3; 2. Chelsea North	20	1	19
on Hosp. for Fistula	4; 2. Belgrave	1	1	-
renor (*Wom. & Chldn.*)	4; 3. St. John Westminst.	6	-	6
ses of Throat	5; 1. S. James Westm.	7	2	5
Women	5; 2. St. Anne Soho	19	-	19
Diseases	5; 2. St. Anne Soho	6	3	3
Lock Hospital	5; 2. St. Anne Soho	1	1	

PUBLIC INSTITUTIONS.	SUB-DISTRICTS.	DEATHS. Total.	Males.	Females.
HOSPITALS FOR SPECIAL DISEASES—*continued.*				
St. John's (*Skin Dis.*)	5; 2. St. Anne Soho	1	1	-
St. Agnes (*Consumption*)	6; 1. All Souls Maryleb.	3	-	3
London Throat	6; 1. All Souls Maryleb.	1	-	1
Home for Consump. Fem.	6; 4. St. Mary Maryleb.	3	-	3
Epilepsy, &c.	6; 6. St. John Maryleb.	2	2	-
North London Consumpn.	7; 1. Hampstead	31	23	8
St. Saviour's (*Cancer*)	8; 1. Regent's Park	9	-	9
Central London Throat and Ear	8; 3. Gray's Inn Lane	6	6	-
For Women	8; 4. Somers Town	8	-	8
London Fever	9; 2. Islington South-west	14	11	3
Royal Westminster Ophthalmic	12; 1. St. Martin-in-the-Fields	3	3	-
St. Peter's (*Stone, &c.*)	12; 2. St. Mary-le-Strand	12	11	1
National (*Par. & Epil.*)	13; 1. St. George the Martyr	34	21	13
Alexandra (*Hip Diseases*)	13; 1. St. George the Martyr	2	1	1
St. Mark's (*Fistula*)	13; 8. City Road	5	4	1
Royal, for Dis. of Chest	13; 8. City Road	52	34	18
City of London for Chest Dis.	16; 3. Bethnal Green East	85	53	32
LYING-IN HOSPITALS.				
St. John the Divine	3; 2. Chelsea North — Women	1	-	1
	Children	4	3	1
Queen Charlotte's	6; 4. St. Mary, Marylebone — Women	4	-	4
	Children	28	16	12
British	11; 2. St. Giles South — Women	2	-	2
	Children	3	-	3
City of London	13; 8. City Road — Women	3	-	3
	Children	16	14	2
East End Mothers' Home	20; 1. Mile End O.T. W. — Women	1	-	1
	Children	2	2	-
General (York Road)	24; 2. Waterloo 2nd — Women	2	-	2
	Children	17	7	10
Clapham Maternity	24; 5. Kennington 1st — Women	-	-	-
	Children	8	4	4
MILITARY AND NAVAL HOSPITALS.				
Station Hospitals	4; 3. St. John Westminster	18	18	-
Seamen's	27; 5. Greenwich East	130	128	2
Herbert	29; 1. Charlton	23	23	-
Garrison Female	29; 3. Woolwich Arsenal	2	1	1
Arsenal Infirmary	29; 3. Woolwich Arsenal	2	2	-
Auxiliary Hospital	29; 3. Woolwich Arsenal	1	1	-
HOSPITALS FOR FOREIGNERS.				
German	10; 4. Hackney	127	97	30
French	11; 3. St. Giles North	46	30	16
Italian	13; 1. St. George the Martyr	7	5	2
LUNATIC AND IMBECILE ASYLUMS.*				
St. Luke's Hospital	13; 8. City Road	10	4	6
Hoxton House *	15; 1. Shoreditch S.	81	41	40
Bethnal House *	16; 3. Bethnal Green E.	61	33	28
Grove Hall *	21; 1. Bow	60	49	11
Bethlehem Hospital	22; 5. London Road	13	9	4
Peckham House *	26; 2. Camberwell	52	29	23
Camberwell House *	26; 2. Camberwell	37	19	18
Lond. Co. Asyl., Banstead	30; 1. Carshalton	244	124	120
Metrop. Asyl., Caterham	37; 1. Godstone	161	74	87
Lond. Co. Asyl., Cane Hill	38; 1. Croydon	97	66	31
Metrop. Asyl., Darenth	42; 2. Dartford	113	48	65
City of Lond. Asyl., Stone	42; 2. Dartford	19	7	12
Lond. Co. Asyl., Hanwell	125; 3. Hayes	180	93	87
Lond. Co. Asyl., Colney Hatch	128; 3. Finchley	224	132	92
Metrop. Asyl., Leavesden	137; 2. Watford	246	112	134

LUNATIC ASYLUMS.—Private Lunatic Asylums are excluded from this list, except those in which *pauper* lunatics are received, which marked thus *.

TABLE 21. LONDON.—**Weekly Deaths** from the principal ZYMOTIC DISEASES during the
Fifty Y

	SMALL-POX.				MEASLES.				SCARLET FEVER.				DIPHTHERIA.			
	1888	1889	1890	1891	1888	1889	1890	1891	1888	1889	1890	1891	1888	1889	1890	
YEAR	9	1	4	8	2401	2314	3291	1807	1209	784	876	589	1301	1588	1417	
March Quar.	4	–	1	3	238	1106	338	452	415	182	185	168	314	355	337	
June „	1	–	2	4	247	667	982	473	235	149	168	122	254	318	278	
Sept. „	2	–	1	1	428	218	937	248	238	191	227	130	273	467	308	
Dec. „	2	1	–	–	1488	323	1034	634	321	262	296	169	460	448	494	
Week.																
1	–	–	–	–	25	143	36	76	37	12	15	16	28	33	32	
2	1	–	–	–	25	176	24	45	25	17	13	24	16	21	26	
3	–	–	–	–	14	121	24	38	42	19	22	13	22	38	22	
4	–	–	–	–	16	83	21	27	29	20	10	11	29	33	22	
5	–	–	–	–	18	71	11	15	39	11	14	22	29	38	24	
6	–	–	–	–	15	56	8	20	36	12	19	9	40	24	24	
7	1	–	–	–	14	43	21	24	30	16	14	13	18	24	39	
8	–	–	1	–	18	70	14	24	32	14	13	11	30	27	27	
9	–	–	–	1	15	67	19	30	27	12	14	13	24	25	24	
10	2	–	–	–	21	76	35	32	29	16	12	10	24	20	19	
11	–	–	–	–	22	60	35	44	25	16	18	5	22	31	25	
12	–	–	–	–	18	84	45	32	24	6	11	12	17	23	23	
13	–	–	–	2	17	56	45	45	40	11	10	9	15	18	30	
14	–	–	–	–	16	74	35	38	20	15	8	11	16	26	20	
15	–	–	–	–	12	72	54	48	17	13	12	11	19	36	21	
16	–	–	–	–	18	70	65	51	21	10	13	6	10	22	17	
17	1	–	–	–	16	65	61	38	15	9	17	10	22	29	20	
18	–	–	1	–	14	68	67	38	23	15	15	9	15	21	18	
19	–	–	–	–	22	60	62	35	19	10	12	6	15	23	25	
20	–	–	–	–	18	53	70	41	13	7	17	10	29	24	21	
21	–	–	1	1	23	47	94	41	17	16	15	10	19	21	24	
22	–	–	–	1	24	31	83	42	19	4	14	7	26	16	25	
23	–	–	–	1	25	39	91	34	23	12	12	7	22	34	20	
24	–	–	–	1	21	32	100	18	19	11	11	15	18	26	24	
25	–	–	–	–	18	23	99	23	10	17	15	8	15	27	19	
26	–	–	–	–	20	33	101	26	19	10	7	12	28	13	24	
27	–	–	–	1	23	31	100	31	10	9	13	10	29	38	21	
28	1	–	–	–	26	30	99	30	18	9	20	7	24	25	22	
29	1	–	–	–	25	29	104	26	14	12	12	10	15	23	19	
30	–	–	–	–	40	20	94	21	23	6	13	10	21	44	20	
31	–	–	–	–	29	25	82	29	18	11	19	5	19	45	36	
32	–	–	–	–	51	15	95	17	17	16	17	6	25	28	22	
33	–	–	–	–	33	18	80	20	17	13	27	13	13	36	15	
34	–	–	–	–	47	9	73	17	21	16	16	11	17	37	20	
35	–	–	–	–	39	12	60	10	15	17	24	5	23	32	26	
36	–	–	–	–	26	9	56	11	19	18	18	15	18	30	16	
37	–	–	–	–	27	10	39	12	24	17	18	15	18	41	18	
38	–	–	–	–	32	3	33	9	20	25	14	10	24	44	35	
39	–	–	1	–	30	7	22	15	22	22	16	13	27	44	38	
40	–	–	–	–	39	9	30	17	24	20	20	10	35	45	28	
41	–	–	–	–	50	13	38	18	30	15	20	13	26	35	38	
42	–	–	–	–	80	23	59	19	33	25	20	10	36	41	41	
43	1	–	–	–	100	17	70	18	25	27	29	9	31	37	23	
44	1	–	–	–	88	22	95	31	24	20	16	13	32	31	26	
45	–	1	–	–	109	20	74	37	18	23	23	8	34	23	50	
46	–	–	–	–	124	33	63	49	31	24	15	13	44	38	29	
47	–	–	–	–	133	33	76	53	20	17	26	15	41	30	37	
48	–	–	–	–	141	18	76	64	24	19	27	19	34	33	48	
49	–	–	–	–	139	41	91	45	30	24	23	20	35	47	41	
50	–	–	–	–	154	30	92	46	17	12	30	8	39	35	45	
51	–	–	–	–	184	35	100	83	25	22	14	17	39	27	32	
52	–	–	–	–	147	29	84	154	20	14	14	14	34	26	31	
53	–	–	–	–	–	–	86	–	–	–	19	–	–	–	25	

ars 1888–1891; and the AVERAGE WEEKLY Numbers from these DISEASES during the 2–1891.

HOOPING-COUGH.				FEVER.				DIARRHŒA.				WEEKLY AVERAGE in 50 Years, 1842–91.							
88	1889	1890	1891	1888	1889	1890	1891	1888	1889	1890	1891	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Fever.	Diarrhœa.	
17	1749	3276	2876	720	596	662	597	2176	2677	2753	2437	17	34	* 43	* 13	47	35	52	YEAR.
17	452	1227	700	243	114	115	106	151	189	147	173	20	31	35	13	65	34	14	March Qr.
09	541	1051	759	150	103	95	144	240	269	212	218	21	38	30	12	56	31	19	June „
88	300	588	574	134	160	175	127	1439	1965	1886	1674	12	28	44	13	33	34	149	Sept. „
23	456	410	843	193	219	277	220	346	254	508	372	13	38	62	16	36	40	25	Dec. „
																			Week.
20	32	98	76	31	15	12	10	12	11	10	13	20	44	45	14	57	37	13	- - 1
52	37	112	46	23	11	12	6	11	12	12	12	21	41	45	13	58	36	14	- - 2
38	36	104	58	27	7	15	7	15	11	6	16	23	36	44	12	62	35	14	- - 3
38	24	82	58	14	11	11	11	11	24	15	19	21	30	39	13	67	35	14	- - 4
77	38	67	37	29	11	9	8	15	13	9	11	23	27	36	14	68	35	14	- - 5
53	33	91	39	13	5	2	9	12	18	4	13	22	24	35	14	69	33	14	- - 6
22	31	115	45	18	13	13	6	8	10	8	10	21	24	33	14	66	34	14	- - 7
27	31	103	61	16	9	9	7	8	16	21	19	20	27	34	12	66	33	14	- - 8
94	31	97	68	15	7	8	4	10	18	12	10	20	27	32	12	65	31	15	- - 9
01	29	95	55	20	7	5	9	17	15	9	15	20	29	31	11	65	34	13	- - 10
92	37	86	48	12	6	4	13	10	14	14	15	18	31	27	13	65	35	13	- - 11
80	42	76	48	11	4	7	8	6	18	14	9	18	32	27	11	67	32	13	- - 12
93	51	101	61	14	8	8	8	16	9	13	11	19	34	29	12	71	34	12	- - 13
89	49	84	61	21	9	3	12	17	17	10	11	20	35	27	12	67	32	12	- - 14
08	43	79	46	9	12	5	8	19	11	10	16	21	36	27	14	68	33	12	- - 15
91	51	106	54	14	6	9	13	23	10	11	15	22	36	29	11	66	33	14	- - 16
80	56	88	72	7	4	7	10	17	18	13	14	21	37	27	13	63	32	13	- - 17
87	55	86	74	12	7	7	14	19	12	21	17	23	37	30	11	60	32	14	- - 18
52	37	99	69	10	9	3	15	14	10	11	12	21	38	29	12	60	30	12	- - 19
64	36	88	53	12	8	10	9	15	14	17	7	23	38	28	11	57	31	14	- - 20
54	48	91	70	13	6	6	8	9	13	10	18	23	40	31	11	57	31	14	- - 21
37	49	78	64	9	9	4	10	19	14	10	14	20	42	32	12	53	31	16	- - 22
34	37	59	44	9	10	13	21	16	34	16	19	20	40	30	12	44	31	24	- - 24
33	27	66	55	15	7	7	6	18	40	24	25	20	40	32	12	44	29	35	- - 25
27	27	52	41	10	9	12	11	36	57	51	38	19	39	32	12	43	30	50	- - 26
31	32	57	51	9	8	8	6	51	155	85	44	17	38	35	12	41	30	83	- - 27
32	26	66	48	13	10	10	7	72	258	107	94	16	35	36	12	41	32	135	- - 28
33	29	56	33	8	7	7	6	62	273	111	159	15	35	37	12	40	31	185	- - 29
30	19	62	43	16	9	2	14	89	271	108	253	14	34	39	13	38	33	225	- - 30
25	22	45	38	9	8	12	9	121	199	177	247	12	33	39	12	34	31	217	- - 31
27	19	37	52	7	9	12	4	138	175	176	195	12	30	42	12	33	32	202	- - 32
20	17	39	44	5	8	17	7	162	158	262	167	12	29	42	11	30	33	188	- - 33
28	20	39	48	7	11	11	11	192	109	255	127	12	26	45	13	30	33	168	- - 34
24	21	39	40	11	12	17	10	144	78	180	88	11	24	45	13	29	35	147	- - 35
32	28	46	44	12	23	19	6	131	68	128	83	11	21	50	12	29	36	128	- - 36
31	18	35	54	13	21	19	13	122	68	117	66	10	19	52	14	27	38	106	- - 37
22	26	38	55	11	12	21	17	78	73	94	84	10	19	52	16	27	39	86	- - 38
13	23	29	24	13	22	20	17	77	80	86	67	9	19	61	15	25	39	73	- - 39
5	14	18	40	9	21	25	17	72	52	105	65	11	22	64	16	26	39	56	- - 40
18	14	29	34	14	17	25	22	43	28	94	49	11	24	65	16	25	39	47	- - 41
12	26	30	43	20	14	23	22	42	22	75	44	10	27	67	17	27	41	37	- - 42
18	22	28	28	19	23	16	17	30	15	55	31	11	28	68	15	27	42	29	- - 43
19	21	19	36	22	19	26	19	34	17	43	36	10	33	68	14	29	42	25	- - 44
15	24	20	57	14	11	29	15	18	17	26	21	13	36	65	17	30	40	21	- - 45
17	37	25	60	15	21	25	13	16	16	19	21	14	39	66	17	34	41	19	- - 46
19	31	33	69	17	24	23	20	18	17	11	15	13	42	64	18	36	41	17	- - 47
20	44	15	76	12	16	14	17	13	12	16	25	15	46	63	17	38	41	16	- - 48
13	47	28	56	13	10	17	17	19	12	4	14	15	47	58	17	43	41	15	- - 49
14	49	27	71	18	15	13	19	11	14	12	15	17	47	57	17	46	41	14	- - 50
25	60	53	93	12	13	16	10	16	13	13	11	17	51	50	16	50	38	13	- - 51
28	67	43	180	8	15	11	12	14	19	15	25	17	49	48	16	56	36	14	- - 52
-	-	42	-	-	-	14	-	-	-	20	-	-	-	-	-	-	-	-	- - 53

* The weekly averages for scarlet fever and diphtheria relate to the 31 years 1861–91.

TABLE 22.—**Births** and **Deaths** Registered in **London**, and **Meteorology** at **Greenwich**, in each Week of 1891.

No. of Week.	Week ending	Births.			Deaths.			Mean Temperature of the Air.	Mean of the		Degree of Humidity (complete saturation = 100).	Fall of Rain in Inches.	Mean Hourly Amount of Horizontal Movement of the Air in each Week.	Sun above Horizon in Hours.	Registered Sunshine in Hours
		Total.	Males.	Femls.	Total.	Males.	Femls.		Highest Readings of the Thermometer.	Lowest Readings of the Thermometer.					
	1891.							°	°	°			Miles.		
1	Jan. 10	2817	1420	1397	2505	1221	1284	27·5	37·3	12·0	83	0·13	9·2	56·0	7·9
2	„ 17	2761	1363	1398	2513	1163	1350	30·9	40·5	16·9	88	0·14	11·2	57·6	5·4
3	„ 24	2789	1381	1408	2212	1061	1151	35·3	48·7	20·1	83	0·56	16·5	59·7	10·5
4	„ 31	2794	1441	1353	1903	993	910	44·2	52·9	35·0	88	0·68	17·1	62·1	18·0
5	Feb. 7	2991	1463	1528	1638	840	798	41·1	49·1	29·6	91	0·04	8·6	64·9	7·2
6	„ 14	2814	1371	1443	1673	880	793	38·4	49·3	29·6	84	0·00	8·7	67·9	17·0
7	„ 21	2655	1347	1308	1762	940	822	36·6	50·4	28·5	93	0·00	5·2	70·9	14·4
8	„ 28	2622	1315	1307	2042	1050	992	37·9	62·1	25·9	86	0·00	3·8	74·2	32·1
9	March 7	2872	1419	1453	2019	1009	1010	46·6	59·6	35·2	77	0·21	20·2	77·3	15·4
10	„ 14	2505	1300	1205	1783	946	837	35·3	45·2	23·1	83	1·16	14·6	80·5	6·8
11	„ 21	2751	1413	1338	1751	887	864	38·9	47·8	29·2	83	0·46	12·4	83·8	7·7
12	„ 28	2575	1335	1240	1667	879	788	40·2	58·0	23·4	71	0·31	16·6	87·0	28·3
13	April 4	2781	1457	1324	1799	944	855	41·5	54·8	29·0	71	0·36	11·6	90·3	25·1
14	April 11	2820	1468	1352	1722	914	808	42·6	60·4	33·3	86	0·19	11·6	93·6	18·6
15	„ 18	2716	1345	1371	1766	978	788	43·9	58·2	30·8	72	0·16	8·4	96·6	23·6
16	„ 25	2577	1308	1269	1809	928	881	44·4	58·0	33·7	72	0·01	12·4	99·7	41·8
17	May 2	2507	1310	1197	2006	1060	946	49·1	66·6	31·8	77	0·19	15·4	102·6	28·3
18	„ 9	2658	1408	1250	2069	1056	1013	51·3	68·0	35·3	72	0·02	9·0	105·4	36·8
19	„ 16	2582	1292	1290	2245	1138	1107	54·5	80·5	34·9	75	0·34	10·7	108·0	41·7
20	„ 23	2374	1214	1160	2235	1166	1069	45·5	60·7	30·9	83	1·17	8·7	110·4	24·5
21	„ 30	2681	1388	1293	2337	1166	1171	48·7	67·3	38·0	84	0·98	9·8	112·5	26·5
22	June 6	2553	1325	1228	2189	1097	1092	58·9	73·8	41·0	80	0·25	9·1	114·1	40·0
23	„ 13	2698	1370	1328	1886	948	938	54·5	78·1	41·0	73	0·00	12·1	115·2	40·5
24	„ 20	2485	1296	1189	1865	945	920	62·2	84·3	48·1	70	0·05	8·5	115·9	43·4
25	„ 27	2389	1228	1161	1538	827	711	64·0	79·6	51·0	78	0·62	10·0	116·0	33·4
26	July 4	2458	1240	1218	1363	749	614	62·4	79·6	50·3	77	0·72	11·2	115·3	52·6
27	July 11	2453	1209	1244	1352	743	609	59·2	73·8	49·9	81	1·14	13·0	114·2	25·6
28	„ 18	2488	1263	1225	1373	748	625	63·4	85·1	48·1	71	0·02	7·7	112·7	32·5
29	„ 25	2504	1293	1211	1462	782	680	60·9	74·4	51·2	77	0·41	11·7	110·8	34·2
30	August 1	2424	1211	1213	1662	898	764	57·0	76·1	45·4	82	1·17	9·9	108·6	28·1
31	„ 8	2317	1199	1118	1646	883	763	57·4	75·0	47·1	84	1·04	9·9	105·9	28·8
32	„ 15	2721	1410	1311	1627	849	778	61·4	79·5	49·7	81	0·30	14·0	103·2	33·0
33	„ 22	2330	1163	1167	1445	769	676	58·0	73·4	47·3	84	1·46	9·4	100·2	28·8
34	„ 29	2501	1234	1267	1403	735	668	58·4	72·6	47·6	83	0·69	15·9	97·2	27·3
35	Sept. 5	2555	1261	1294	1299	679	620	57·4	71·8	43·2	81	0·29	12·7	94·1	29·9
36	„ 12	2496	1298	1198	1217	644	573	62·9	81·9	47·6	72	0·06	7·1	90·9	57·9
37	„ 19	2507	1275	1232	1274	678	596	59·9	82·1	44·3	87	0·43	10·8	87·8	14·8
38	„ 26	2559	1334	1225	1322	663	659	55·7	69·1	44·5	84	0·25	11·3	84·6	20·4
39	October 3	2367	1238	1129	1272	647	625	55·8	71·3	40·2	79	0·31	12·7	81·3	54·4
40	October 10	2578	1329	1249	1395	719	676	54·5	68·3	39·5	84	0·97	10·1	78·2	24·0
41	„ 17	2508	1278	1230	1321	676	645	51·5	62·9	41·3	81	1·32	17·5	75·1	25·9
42	„ 24	2562	1276	1286	1428	711	717	50·5	60·2	42·7	88	1·21	11·8	72·0	15·9
43	„ 31	2603	1338	1265	1348	687	661	46·2	54·6	29·9	84	0·54	13·1	68·9	27·0
44	Nov. 7	2717	1348	1369	1446	755	691	45·2	57·4	35·5	83	0·01	9·5	65·9	9·0
45	„ 14	2456	1266	1190	1590	817	773	43·8	53·4	31·8	88	1·52	13·9	63·2	11·6
46	„ 21	2596	1279	1317	1629	822	807	46·5	56·4	35·5	91	0·26	11·2	60·7	1·5
47	„ 28	2395	1175	1220	1612	804	808	37·9	45·4	29·8	88	0·17	8·3	58·3	10·3
48	Dec. 5	2480	1264	1216	1715	850	865	46·5	57·0	34·8	91	0·68	13·3	56·5	2·3
49	„ 12	2393	1244	1149	1462	716	746	44·9	55·3	31·9	82	0·96	24·1	55·2	8·5
50	„ 19	2625	1357	1268	1449	748	701	40·7	53·2	23·3	79	0·51	14·2	54·3	11·5
51	„ 26	1462	750	712	1771	911	860	29·1	48·4	17·3	93	0·02	4·7	54·0	4·7
52	Jan. 2	3181	1652	1529	3399	1640	1759	43·0	54·0	30·1	86	0·56	17·8	54·8	8·3

TABLE 23.—**Greenwich Meteorological Elements** for the Year 1891. By J. GLAISHER, Esq., F.R.S.

1891. Months.	Mean Reading of the Barometer.	Temperature of the Air.							Departure from Average of 120 Years, 1771–1890.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Weight of Vapour in a Cubic Foot of Air.	Mean additional Weight required for Saturation.	Mean Degree of Humidity. Saturation = 100.	Mean Weight of a Cubic Foot of Air.	Relative Proportion of Wind.				Mean Amount of Cloud.	Rain.	
		Highest by Day.	Lowest by Night.	Range in Month.	Mean of all Highest.	Mean of all Lowest.	Mean Daily Range.	Mean for the Month.								N.	E.	S.	W.		Number of Days it fell.	Amount collected.
	in.	°	°	°	°	°	°	°	°	°	in.	grs.	grs.		grs.							in.
January–	29·961	52·9	12·0	40·9	38·7	29·1	9·6	34·1	−2·6	30·6	·171	2·1	0·2	87	562	9	6	9	7	6·1	17	1·58
February	30·282	42·1	25·9	16·2	46·3	31·8	14·5	38·5	−0·3	35·2	·205	2·3	0·4	88	563	8	7	5	8	5·3	4	0·03
March –	29·642	59·6	23·1	36·5	47·7	34·3	13·4	40·3	−0·8	33·6	·193	2·2	0·7	77	549	10	5	7	9	7·4	17	2·14
April –	29·793	64·6	29·0	37·6	53·6	38·2	17·4	44·2	−1·9	36·9	·219	2·5	0·8	76	548	11	8	5	6	7·1	8	0·72
May –	29·707	80·5	30·9	49·6	61·4	41·7	19·7	50·3	−2·2	43·5	·283	3·2	0·9	78	537	10	6	8	7	7·2	18	2·68
June –	29·841	84·3	41·0	43·3	72·2	51·3	20·9	60·4	+2·1	52·4	·394	4·4	1·5	75	530	10	7	6	7	6·1	11	0·96
July –	29·759	85·1	45·4	39·7	71·7	51·6	20·1	60·3	−1·4	53·2	·406	4·5	1·3	78	529	5	6	10	10	7·1	17	3·39
August –	29·646	79·5	43·2	36·3	69·3	51·5	17·8	58·6	−2·3	53·3	·407	4·5	1·0	83	529	6	3	9	13	7·5	22	3·72
September	29·834	8·1	44·3	37·8	69·8	50·2	19·6	59·1	+2·6	52·8	·400	4·5	1·1	80	530	5	7	10	8	5·6	12	0·82
October –	29·608	63·3	29·9	33·4	58·8	44·0	14·8	50·9	+1·4	46·2	·318	3·5	0·6	84	537	6	7	12	6	6·1	20	4·32
November	29·670	57·4	29·8	27·6	48·2	37·7	10·5	43·1	+0·7	39·9	·246	2·8	0·4	83	546	8	8	9	5	7·4	15	2·01
December	29·804	57·0	17·3	39·7	46·5	35·4	11·1	41·1	+2·1	37·1	·221	2·6	0·4	86	551	4	7	11	9	6·2	17	2·67
Means	29·787	69·6	31·0	38·6	57·0	41·2	15·8	48·4	−0·2	42·9	·288	3·3	0·8	82	543	92	77	101	95	6·6	178	25·03
																	Sums.				Sum	Sum

TABLE 24.—METEOROLOGICAL TABLE FOR LONDON, 1891.

(Deduced from Observations, at Greenwich, under the Superintendence of the Astronomer Royal, and compiled from Quarterly Tables, furnished to the Registrar General by James Glaisher, Esq., F.R.S.)

Winter . . Jan., Feb., March. Spring . . April, May, June. Summer . . July, Aug., Sept. Autumn . . Oct., Nov., Dec.	Temperature of Air. Mean.	Temperature of Air. Diff. from Average of 120 Years.	Temperature of Air. Diff. from Average of 50 Years.	Temperature of Evaporation. Mean.	Temperature of Evaporation. Diff. from Average of 50 Years.	Temperature of Dew Point. Mean.	Temperature of Dew Point. Diff. from Average of 50 Years.	Air—Daily Range. Mean.	Air—Daily Range. Diff. from Average of 50 Years.	Elastic Force of Vapour. Mean.	Elastic Force of Vapour. Diff. from Average of 50 Years.	Weight of Vapour in a Cubic Foot of Air. Mean.	Weight of Vapour in a Cubic Foot of Air. Diff. from Average of 50 Years.	Degree of Humidity. Mean (Sat^{n} = 100).	Degree of Humidity. Diff. from Average of 50 Years.	Reading of Barometer. Mean.	Reading of Barometer. Diff. from Average of 50 Years.	Weight of a Cubic Foot of Air. Mean.	Weight of a Cubic Foot of Air. Diff. from Average of 50 Years.	Rain. Amount.	Rain. Diff. from Average of 76 Years.	Reading of Thermometer on Grass. Number of Nights it was: At or below 30°.	Between 30° and 40°.	Above 40°.	Lowest Reading at Night.	Highest Reading at Night.
1891.	°	°	°	°	°	°	°	°	°	in.	in.	grs.	gr.			ins.	in.	grs.	grs.	Sums. ins.	Sums. ins.	Sums.	Sums.	Sums.	°	°
YEAR .	48·4	−0·2	−0·8	45·1	−0·8	42·9	−0·7	15·8	0·0	·288	−·005	3·3	−0·1	82	−1	29·787	+·014	543	+1	25·05	−0·07	88	135	142	12·0	57·0
Winter Quarter .	37·6	−1·2	−2·1	35·8	−2·1	33·1	−2·2	12·5	+0·8	·190	−·017	2·2	−0·2	84	0	29·962	+·192	558	+6	3·75	−1·22	48	40	2	12·0	44·1
Spring do. .	51·6	−0·7	−1·2	45·4	−1·6	44·3	−1·1	19·3	−0·6	·299	−·008	3·4	−0·1	76	−2	29·747	−·032	538	0	4·37	−1·43	11	39	41	25·9	57·0
Summer do. .	59·3	−0·4	−0·8	56·0	−0·3	53·1	0·0	19·2	−0·5	·404	·000	4·5	−0·1	80	+3	29·746	−·048	530	0	7·93	+0·63	0	10	82	36·4	57·0
Autumn do. .	45·0	+1·4	+0·8	43·2	+0·7	41·1	+0·6	12·1	+0·4	·260	+·004	3·0	−0·1	86	−4	29·694	−·056	545	−2	9·00	+1·95	29	46	17	15·4	50·0

In this Table + and − respectively signify that the number in the *preceding* column are *above* or *below* the average to the amount of the quantities to which these signs are affixed.

TABLE 25.—**Houses, &c.** supplied, and **Average Daily Quantity of Water** DELIVERED, by the **London Water Companies** in each MONTH of the Year 1891.

COMPANIES.	NUMBER OF HOUSES, &c. SUPPLIED IN											
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Total Houses supplied -	769,763	770,332	771,413	772,457	773,499	774,706	775,404	776,186	777,370	778,431	779,308	779,932
FROM THAMES - - - - -	370,994	371,316	371,896	372,405	372,971	373,630	374,025	374,462	375,126	375,624	375,941	376,319
FROM LEA AND FROM OTHER SOURCES -	398,769	399,016	399,517	400,052	400,528	401,076	401,379	401,724	402,244	402,807	403,367	403,613
FROM THAMES.												
CHELSEA - - - - - -	35,719	35,735	35,771	35,839	35,910	35,952	36,008	36,069	36,099	36,126	36,165	36,212
WEST MIDDLESEX - - -	73,877	73,877	74,052	74,156	74,331	74,527	74,527	74,556	74,798	74,986	75,010	75,090
SOUTHWARK AND VAUXHALL -	112,830	112,922	113,009	113,083	113,160	113,289	113,376	113,478	113,569	113,650	113,729	113,781
GRAND JUNCTION - - -	56,599	56,679	56,768	56,868	56,956	57,054	57,167	57,258	57,364	57,433	57,480	57,535
LAMBETH - - - - -	91,969	92,103	92,296	92,459	92,614	92,808	92,947	93,101	93,296	93,429	93,557	93,701
FROM LEA AND FROM OTHER SOURCES.												
NEW RIVER - - - - -	154,116	154,131	154,211	154,324	154,437	154,542	154,636	154,654	154,743	154,946	155,054	155,055
EAST LONDON - - - -	169,674	169,865	170,136	170,441	170,715	170,995	171,067	171,307	171,625	171,880	172,070	172,070
KENT - - - - -	74,979	75,020	75,170	75,287	75,376	75,539	75,676	75,763	75,876	75,981	76,243	76,488

COMPANIES.	AVERAGE DAILY SUPPLY OF WATER IN GALLONS DURING THE MONTHS OF											
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Total Quantities supplied -	192,454,640	180,491,255	173,356,318	174,273,526	179,908,849	190,514,651	193,615,074	185,973,866	188,148,177	179,951,481	173,045,298	177,450,133
FROM THAMES - - - - -	90,723,358	88,887,502	86,932,572	87,367,489	90,160,945	96,594,616	98,092,605	93,673,486	94,836,192	91,328,241	87,757,528	88,909,053
FROM LEA AND FROM OTHER SOURCES -	101,731,282	91,603,753	86,423,746	86,906,037	89,747,904	93,920,035	95,522,469	92,300,380	93,311,985	88,623,240	85,287,770	88,541,080
FROM THAMES.												
CHELSEA - - - - - -	9,475,229	9,399,680	9,351,607	9,355,234	10,245,378	10,691,276	10,838,290	10,020,700	10,169,297	9,683,135	9,723,008	9,383,605
WEST MIDDLESEX - - -	16,960,499	16,263,666	16,197,377	16,480,260	17,323,261	18,308,522	18,209,238	16,686,401	16,815,685	17,016,264	16,361,113	16,307,961
SOUTHWARK AND VAUXHALL -	25,338,253	25,485,504	24,870,738	25,146,820	25,409,173	27,111,575	27,191,727	28,001,068	28,303,834	26,727,227	25,327,008	26,465,901
GRAND JUNCTION - - -	16,800,506	17,465,734	17,672,179	17,923,532	18,473,773	19,995,761	20,444,486	18,744,043	18,259,308	18,635,582	18,362,391	18,490,778
LAMBETH - - - - -	22,148,871	20,272,918	18,840,671	18,461,643	18,709,360	20,487,482	21,408,864	20,221,274	20,788,068	19,266,033	17,984,008	18,260,808
FROM LEA AND FROM OTHER SOURCES.												
NEW RIVER - - - - - -	35,004,500	31,008,000	30,287,000	30,994,000	32,928,000	34,573,000	36,897,000	34,165,000	34,646,000	32,585,000	31,230,000	31,386,000
EAST LONDON - - - -	51,373,333	46,826,369	43,355,914	42,892,358	43,669,585	45,201,329	44,618,741	44,690,577	45,464,745	42,786,086	41,594,365	43,830,785
KENT - - - - -	15,353,449	13,769,384	12,780,832	13,019,679	13,150,319	14,145,706	14,006,728	13,444,803	13,701,240	13,252,154	12,463,405	13,324,295

TABLE 26.—**Houses, &c.** supplied, and **Average Daily Quantity of Water** DELIVERED for ALL PURPOSES and for DOMESTIC PURPOSES, by the **London Water Companies** during 1891.

WATER COMPANIES.	AVERAGE NUMBER of HOUSES supplied during the Year.	AVERAGE DAILY SUPPLY OF WATER DURING THE YEAR.				
		Delivered.		Used for Domestic purposes.†		
		Gallons.	Cubic Metres.*	Gallons.	Gallons per House.	
					1890.	1891.
Total	774,900	182,431,939	828,872	149,594,190	188	193
FROM THAMES	373,726	91,230,299	414,501	74,808,845	196	200
FROM LEA AND FROM OTHER SOURCES	401,174	91,201,640	414,371	74,785,345	181	186
FROM THAMES.						
CHELSEA	35,967	9,861,370	44,805	8,086,323	230	225
WEST MIDDLESEX	74,482	16,910,854	76,834	13,866,900	179	186
SOUTHWARK AND VAUXHALL	113,323	26,281,569	119,409	21,550,887	182	190
GRAND JUNCTION	57,097	18,439,006	83,777	15,119,985	268	265
LAMBETH	92,857	19,737,500	89,676	16,184,750	168	174
FROM LEA AND FROM OTHER SOURCES.						
NEW RIVER	154,571	32,975,292	149,822	27,039,739	174	175
EAST LONDON	170,987	44,692,015	203,056	36,647,453	207	214
KENT	75,616	13,534,333	61,493	11,098,153	137	147
Columns	1.	2.	3.	4.	6.	5.

* A cubic metre is equal in volume to 35·3 cubic feet, or to 220·09668 imperial gallons. It is nearly equivalent to the old English *tun* of four hogsheads, holding 35·248 cubic feet. It is in general use on the Continent; and its volume of water weighs a metric *ton*, differing inconsiderably in weight from the *ton* in common use. It is equal to 100 decalitres: thus a decalitre equals 2·2009668 gallons.

† According to returns of the London Water Companies made to the Select Committee on East London Water Bills (Session 1867), it is estimated that during the year 1866 about 82 per cent. of the total supply of water for all purposes was for domestic use; this proportion has been applied in estimating the quantities in columns 4, 5, and 6, showing the gallons probably used for domestic purposes. The average daily quantity of water supplied by the London Companies during the year 1891 was 182,431,939 gallons (828,872 cubic metres, equal to about as many *tuns* by measure, *tons* by weight), of which about 149,594,190 gallons (679,675 cubic metres) were probably used for domestic purposes. The average quantity used daily for domestic purposes in each house (see Col. 6) is equal to 87·7 decalitres, and, assuming 7·8 persons to each house, corresponds to 24·7 gallons (11·2 decalitres) to each person. The Returns of the Water Companies include uninhabited houses.

REPORT on the CHEMICAL, PHYSICAL, and BACTERIOLOGICAL EXAMINATION of the WATERS supplied by the METROPOLITAN WATER COMPANIES during the YEAR 1891. By Professor FRANKLAND, D.C.L., LL.D., M.D., F.R.S.

Water-analysis Laboratory, The Yews, Reigate,
27th January 1892.

SIR,

At the close of the year, I have now to report to you the results of monthly analyses and examinations of the water supplied by the eight Metropolitan Water Companies, the Colne Valley Water Company, and the Tottenham Local Board of Health, during the year 1891.

The operations of those Companies who supply river waters have been most seriously interfered with by dense smoke-bearing fogs in the early part of the year, and by heavy floods in the Thames and Lea during summer and autumn. In consequence of these unfavourable conditions, the river-derived waters have often been in a very undesirable condition, and well founded complaints have repeatedly reached me from persons supplied with these waters. The storage, subsidence, and filtration plant of these Companies who purvey river water were quite inadequate to deal with the exceptional pollution; and water of such bad quality, as regards organic matter in solution, has rarely been delivered by these Companies during the last 26 years. Even the Chelsea and East London Companies, the storage capacity of whose reservoirs is from twice to five times that of the other river-water Companies, cannot at all times exclude foul flood water. There appeared to have been no abnormal amount of sewage contamination in the river waters, the great additional amount of organic matter being derived from vegetable sources. Nevertheless, the water at the times of maximum pollution was, by reason of excessive quantity of organic matter and of clay in suspension, in some cases repulsive to both eye and palate.

All the samples examined were taken directly from the mains of the several Companies at places recommended by their respective engineers. In addition to the chemical analysis to which each sample has been submitted, the temperature of the water, as it issued from the main at the time of its collection, has been determined, and the appearance which it exhibited on being viewed in a two-foot tube has been recorded. Nearly all the samples have also been submitted to bacteriological examination. The temperatures and the results of the chemical analyses are contained in the accompanying Tables A. to L.

Table A. gives the temperatures of the waters at the time of their collection. From this Table it will be seen that, although the average temperature differs but little for the several supplies, the monthly variation in the case of the river waters is very great; whilst the temperature of the deep-well water is practically constant throughout the year. Thus the water, principally derived from the Thames and supplied by the Chelsea, West Middlesex, Southwark, Grand Junction, and Lambeth Companies, varied in temperature from 1°·6 C. (34°·9 Fahr.) in January to 20°·3 C. (68°·5 Fahr.) in July, and the water of the Lea, distributed by the New River and East London Companies, fluctuated from 2°·1 C. (35°·8 Fahr.) in January to 18°·5 C. (65°·3 Fahr.) in July. The deep-well water of the Kent Company, on the other hand, was free from these violent fluctuations, and practically maintained a constant temperature throughout the year; it varied only from 10°·0 C. (50°·0 Fahr.) in April to 12°·7 C. (54°·9 Fahr.) in July. This uniformity in temperature of deep-well water is of considerable importance, as the water is cool and refreshing in summer and is less likely to become frozen in the service-pipes in winter, whilst river water at 68°·5 Fahr. is unpleasantly vapid and at 34°·9 Fahr. is soon cooled to the freezing point.

Table B. gives the total amount of solid matters found in 100,000 parts by weight of the various waters. These solid matters are almost wholly composed of mineral substances, which, in these proportions, in no way diminish the fitness of water for drinking. But the salts of lime and magnesia, which constitute the principal part of these mineral ingredients, are objectionable, not only because they impart to the water what is known as "hardness," and thus render it unsuitable for washing, but also because they cause incrustations and deposits in steam and kitchen boilers and hot-water pipes. The comparatively small proportion of organic material which the solid matter invariably contains, is, on the other hand, of the greatest importance in connexion with the use of the water for drinking purposes. For, although the actual amount of this organic matter is often quite insignificant, yet it may be of the most objectionable character on account of its origin. Thus the water both of the Thames and the Lea receives, above the points where it is abstracted for the purpose of the metropolitan supply, various contributions of organic matter of animal origin, such as the drainage from manured land, the effluents from sewage works, and even raw sewage itself. This animal matter may, at any time, be accompanied by zymotic poisons dangerous to health, and although the chance of such substances reaching the water consumer are greatly reduced, both by the filtration to which the water is subjected by the Companies and by the care which is exercised in excluding the flood waters from their reservoirs; yet, in spite of these protective measures, there is no absolute guarantee that the noxious ingredients, which may at any time be present, are wholly removed. It is gratifying to find, therefore, that most of the water Companies are endeavouring to substitute, as far as possible, water from subterranean sources for raw river water, whilst the Board of Conservators have almost completely stopped the discharge of untreated town sewage into the Thames.

The saline matters dissolved in the deep-well water from the chalk are considerably greater in amount than those found in the river-water, and inasmuch as this chalk water is sent out in its natural condition by the Kent Company and by the Tottenham Local Board of Health, these supplies contain, in two out of the three cases, more solid matter than any of the others. The Colne Valley Company, on the other hand, by treating this chalk water with lime before delivery, so reduced the solid matter that the latter was one-third less than the amount present in the river waters, and was less than one-half of that in the deep-well waters either of the Kent Company or of the Tottenham Local Board of Health.

Tables C. and D. are very important; they record the amounts of organic carbon and organic nitrogen in each of the waters, as determined by combustion with oxide of copper. Since these are the only two ingredients of the organic matter which can be accurately determined, these results are the only available evidence of the relative proportions of total organic matter present in the waters. These Tables show that, with few exceptions, the river waters, both from the Thames and Lea, were much polluted with organic matter in the months of February, September, October, November, and December. As a rule, the best Thames water was delivered by the Chelsea Company, which also possesses by far the largest storage reservoirs. The waters derived chiefly from the Lea by the New River and East London Companies were almost invariably superior to the Thames-derived waters of the Chelsea, West Middlesex, Southwark, Grand Junction, and Lambeth Companies, the New River Company's water often rivalling the deep-well waters in respect of organic purity, but the sample collected in December contained nearly four times as much organic matter as that examined in January. The proportion of organic matter in the deep-well waters of the Kent, East London, and Colne Valley Companies, and in that of the Tottenham Local Board of Health, was, with one exception, invariably very small. The exception was the sample of Colne Valley water collected on the 20th March, when, as the secretary informed me, the fixing of new pump gear in the well caused this temporary contamination. Another sample collected on the 31st March was of the usual excellent quality of this Company's water.

Taking the mean proportion of organic impurity contained in the Thames water delivered in 1868 as 1,000, I find that in the subsequent years, 1891 included, the following proportions were present :—

Year.	Proportion of Organic Impurity present in Thames Water as delivered in London.	Year.	Proportion of Organic Impurity present in Thames Water as delivered in London.
1868	1,000	1880	1,254
1869	1,016	1881	993
1870	795	1882	1,033
1871	928	1883	850
1872	1,243	1884	723
1873	917	1885	839
1874	933	1886	756
1875	1,030	1887	690
1876	903	1888	722
1877	907	1889	677
1878	1,056	1890	680
1879	1,165	1891	1,002

These figures show that the Thames water distributed during the year 1891 has not been equalled in respect of high average organic impurity since the year 1882.

Of the water chiefly derived from the river Lea, that supplied by the New River Company contained, in every case, less organic matter than that of the East London Company, which was generally, in this respect, somewhat superior to the best of the Thames waters.

Taking, as before, the mean proportion of organic impurity contained in the Thames water delivered in 1868 as 1,000, I find that in the subsequent years 1891 included, the following proportions were present in the Lea water :—

Year.	Proportion of Organic Impurity present in Lea Water as delivered in London.	Year.	Proportion of Organic Impurity present in Lea Water as delivered in London.
1868	484	1880	1,013
1869	618	1881	765
1870	550	1882	711
1871	604	1883	620
1872	819	1884	500
1873	693	1885	603
1874	583	1886	500
1875	751	1887	473
1876	562	1888	506
1877	596	1889	504
1878	747	1890	432
1879	947	1891	684

Thus the Lea water delivered during the year 1891 was also of worse average quality, as regards organic contamination, than that delivered at any time since the year 1882.

The organic matter found in the deep-well water supplied to London during the past twenty-four years is of course much less in amount. Referred to the same standard, the figures are as follow :—

Year.	Proportion of Organic Impurity present in Deep-well Water as delivered in London.	Year.	Proportion of Organic Impurity present in Deep-well Water as delivered in London.
1868	254	1880	393
1869	312	1881	405
1870	246	1882	409
1871	150	1883	321
1872	221	1884	264
1873	250	1885	200
1874	287	1886	244
1875	250	1887	249
1876	246	1888	241
1877	243	1889	268
1878	323	1890	252
1879	387	1891	357

A comparison of these figures with those referring to the Thames and Lea does not, however, adequately represent the superiority, from a sanitary point of view, of the deep-well water, for it must be borne in mind that the exhaustive filtration which this water undergoes, in passing through a great depth of porous strata, is far in excess of what can be effected by the sand filtration, highly valuable as it is, to which the river waters are subjected.

Table E. shows the proportional amount of organic elements (organic carbon and organic nitrogen) in each of the waters, the average amount of these elements contained in the Kent Company's water during the nine years ending December 1876 being taken as unity. This Table shows that the maximum, minimum, and average proportions of organic matter, as measured by this standard, present in the several waters during 1891, were :—

Sources.		Maximum.	Minimum.	Average.
Deep wells	Kent	1·0	0·6	0·8
	Tottenham	1·8	1·2	1·5
	East London	2·3	0·9	1·7
	Colne Valley	5·7	1·1	1·9
River Lea	New River	4·1	1·1	2·0
	East London	5·8	2·4	3·6
River Thames	Chelsea	6·6	2·4	3·6
	West Middlesex	7·9	2·4	4·2
	Southwark	8·5	2·6	4·1
	Grand Junction	8·7	2·6	4·4
	Lambeth	8·8	2·7	4·2

Thus, of the deep-well waters, that sent out by the Kent Company contained by far the least proportion of organic matter. Of the river waters, that supplied by the New River Company stood much higher than the others in this respect, whilst the East London Company's water was markedly superior to any of the Thames-derived waters, except the Chelsea Company's supply.

The following Table exhibits the maximum amount of organic matter in the waters supplied from the Thames and Lea during the years 1868 to 1891 inclusive, the average of the samples from each source in the month of greatest impurity being taken for comparison :—

MAXIMUM AMOUNT OF ORGANIC MATTER.

THAMES.			LEA.		
Year.	Elements of organic matter in parts per 100,000.	Months in which maximum pollution occurred.	Year.	Elements of organic matter in parts per 100,000.	Months in which maximum pollution occurred.
1868	·45	January.	1868	·27	February.
1869	·60	February.	1869	·33	February.
1870	·42	January.	1870	·30	January.
1871	·52	October.	1871	·22	February.
1872	·48	January & December.	1872	·39	December.
1873	·46	January.	1873	·33	January.
1874	·37	March.	1874	·21	March.
1875	·49	November.	1875	·28	November.
1876	·44	December.	1876	·24	March.
1877	·40	January.	1877	·30	January.
1878	·36	December.	1878	·26	June.
1879	·38	February.	1879	·33	July.
1880	·42	October.	1880	·33	February.
1881	·34	February.	1881	·34	February.
1882	·37	November.	1882	·26	December.
1883	·32	January.	1883	·24	December.
1884	·27	February.	1884	·20	March.
1885	·35	November.	1885	·28	December.
1886	·30	December.	1886	·21	February.
1887	·34	January.	1887	·31	January.
1888	·35	December.	1888	·29	December.
1889	·31	January.	1889	·21	November.
1890	·27	January.	1890	·19	January.
1891	·43	October.	1891	·27	November.

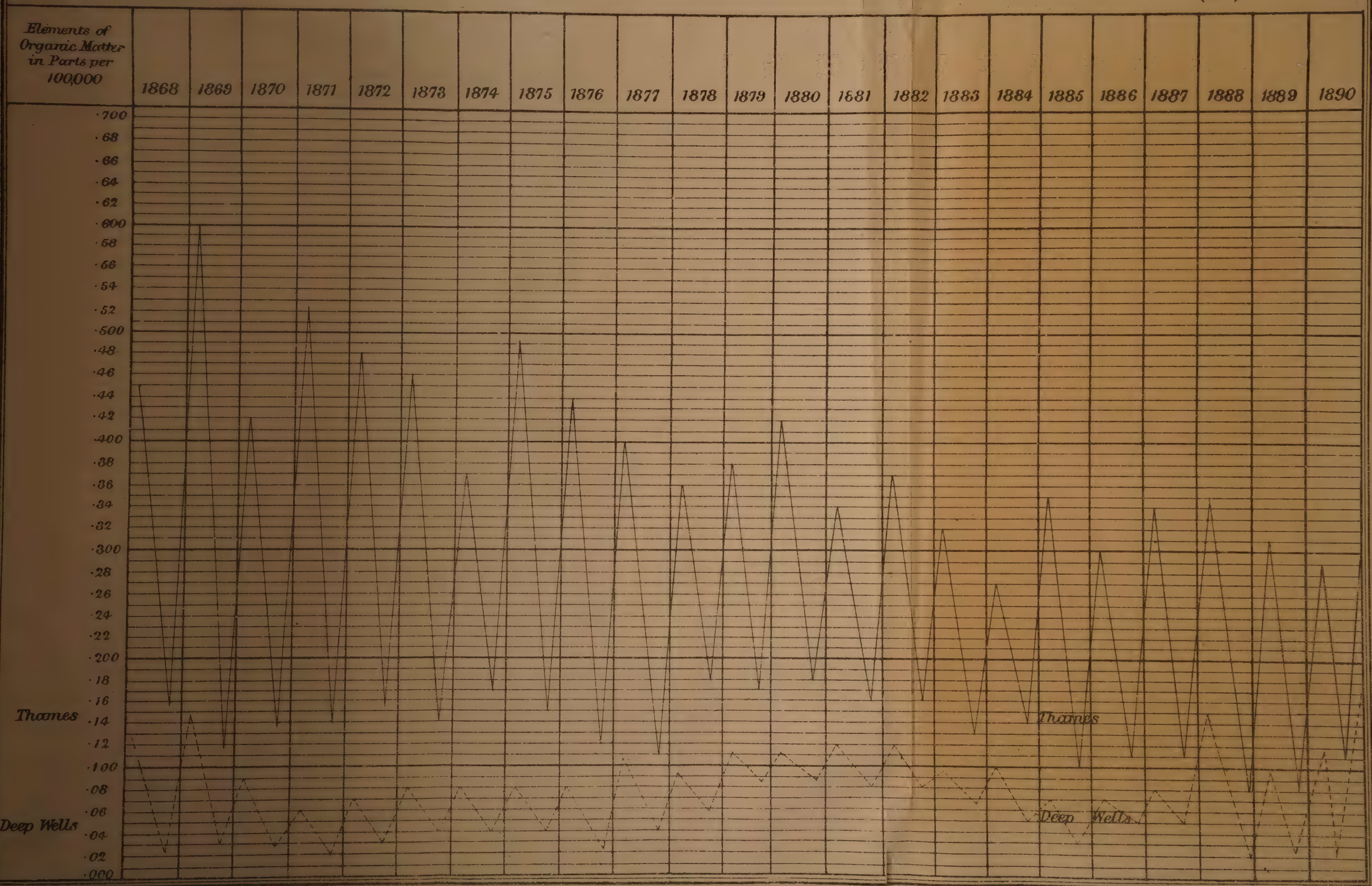
This Table shows that such a high degree of organic pollution in the Thames-derived waters has not been reached since the year 1876, but in the Lea supplies it was exceeded in 1888.

The variations in the proportion of organic matter found in the several supplies is exhibited graphically in the accompanying diagrams (A. & B.), in which the maximum and minimum proportions of organic matter annually present in each of the three classes of waters since 1868 are recorded.

Tables F. and G., which record the proportions of ammonia and of nitrogen as nitrates and nitrites in the various waters, require no explanation.

Maximum and Minimum Proportion of Organic Matter in Water from Thames and Deep Wells.

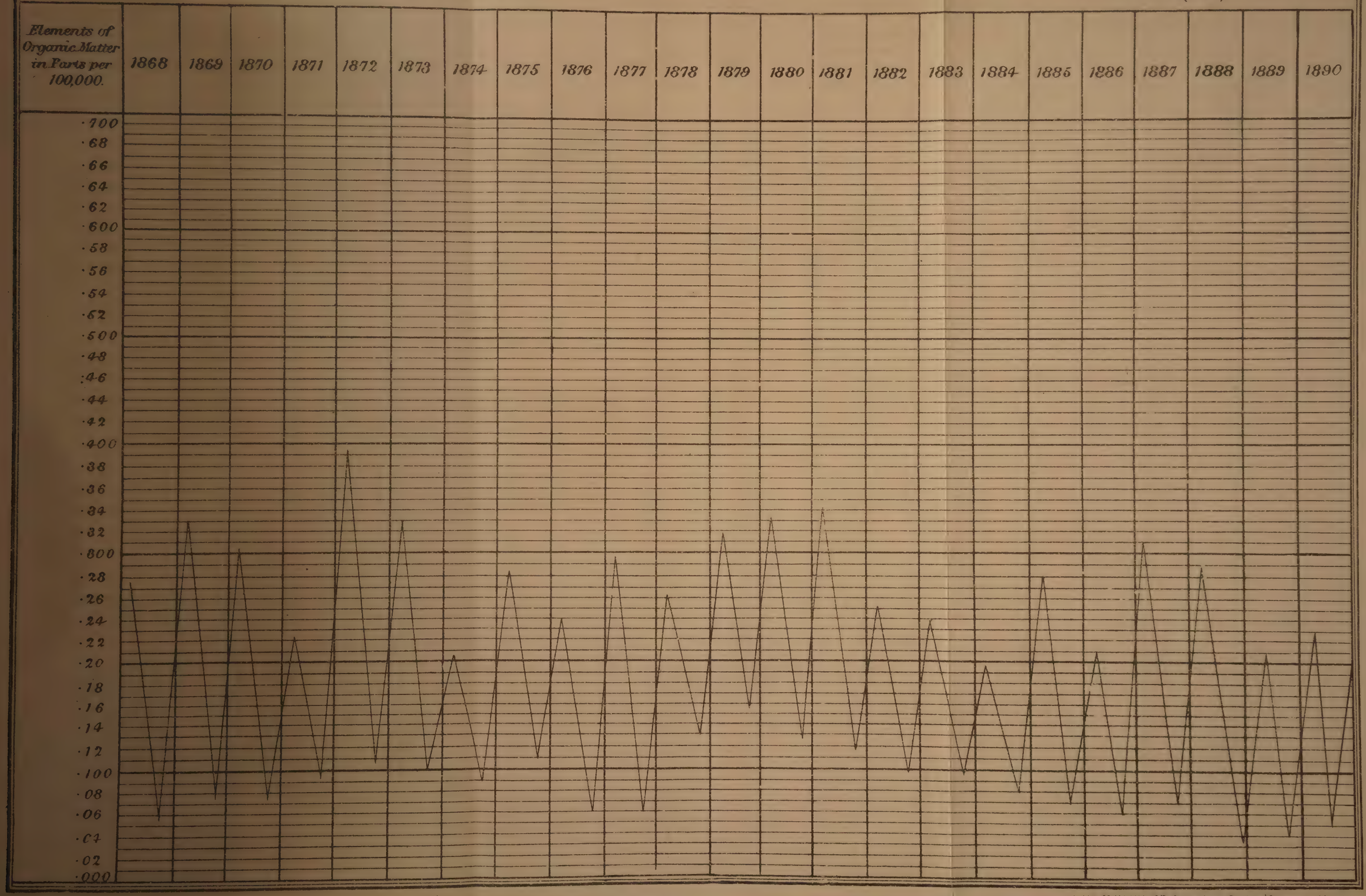
(*A)



Judd & Co. lith. 63, Carter Lane, Doctors' Commons. 30 of 28

Maximum & Minimum Proportion of Organic Matter in River Lea Water.

(*B)



Judd & Co Ltd, Lith. 63, Carter Lane, Doctors' Commons. 30.05.2.92

In Table H. is given the amount of combined nitrogen, both mineral and organic, found in each of the waters. The total amount of combined nitrogen is of importance, inasmuch as, after making a small correction for the combined nitrogen present in average rain-water, it forms the whole evidence of the nitrogenous organic matters which have gained access to the water in the past, as well as of those which are still present at the time the analysis is made. In river and surface water generally, this total combined nitrogen undergoes a very appreciable reduction during the warmer months of the year, in consequence of the vegetable life which then abounds in such water. On this account, therefore, the amount of total combined nitrogen found in the river waters during the winter months can alone be regarded as bearing any relationship to the amount of nitrogenous matters which the waters have received.

The deep-well waters on the other hand are not subject to the influence of vegetable life, and the amount of total combined nitrogen is, therefore, equally indicative at all times of the year.

Hence, in the following Table, the average proportion of total combined nitrogen in the case of the Thames and Lea is given for the months of January, February, March, October, November, and December only, whilst in the case of the deep-wells it is calculated on the whole year :—

Year.	Thames.	Lea.	Deep-Wells.
1882	·258	·304	·294
1883	·259	·329	·353
1884	·244	·273	·301
1885	·233	·277	·292
1886	·319	·336	·355
1887	·307	·352	·365
1888	·304	·322	·358
1889	·311	·358	·438
1890	·280	·296	·371
1891	·217	·247	·287

A comparison of these numbers shows that the continuous increase of total combined nitrogen in all three classes of water, upon which I commented in my annual report for 1889, has stopped; and that during the past two years there has been a considerable reduction of the amount of this element, both in the river and deep-well waters. This reduction may have been caused, at all events in the river waters, by the more efficient exclusion of untreated sewage, but it is more likely to be due to increased rainfall, whilst in the deep-well waters it is due to the inclusion of the deep wells of the East London Water Company, which contain a remarkably small amount of nitrogenous compounds. Excluding these wells the number rises to ·377, which is almost identical with the proportion observed in these waters in 1890.

Table I. shows the amount of chlorine present in each of the waters, and indicates that on no occasion has brackish or tidal water gained access to the Company's reservoirs. The amount of chlorine in the Thames waters exhibits a slight decrease, whilst that in the Lea and deep-well waters is, on the average, almost exactly the same as last year.

Table K. gives the hardness of the various waters. The term "hardness" is used to denote the proportion of carbonate of lime, or its equivalent of other soap-destroying substances, present in 100,000 parts of the water. The variations

in hardness for the several descriptions of water during recent years are given in the following Table:—

Year.	Thames.	Lea.	Kent.	Colne Valley.	Tottenham.	East London Deep Well.
1882	20°·7	21°·1	28°·5	5°·5	25°·4	—
1883	19°·9	20°·6	28°·0	7°·1	22°·5	—
1884	19°·4	20°·1	28°·6	5°·2	19°·7	—
1885	18°·7	20°·0	27°·9	4°·8	20°·4	—
1886	19°·2	20°·3	29°·4	4°·5	21°·3	—
1887	19°·3	20°·8	29°·9	5°·7	20°·5	—
1888	20°·0	22°·0	30°·2	7°·5	22°·5	—
1889	20°·2	22°·1	29°·9	7°·0	24°·6	—
1890	20°·4	22°·0	29°·7	7°·9	23°·8	—
1891	20°·3	21°·8	29°·4	8°·9	24°·4	18°·9

None of the waters supplied to the Metropolis are of such excessive hardness as to influence their fitness for drinking; but, with the exception of that supplied by the Colne Valley Company, the hardness is sufficiently great to materially diminish the value of the waters for washing, steam, and industrial purposes generally. The hardness of the metropolitan water supply is almost entirely due to the presence of bi-carbonate of lime in solution; this bi-carbonate of lime can be readily removed by treating the water with lime, as is so successfully done by the Colne Valley Company. Thus the water pumped from the chalk by the Colne Valley Company is initially of about the same degree of hardness as the Kent Company's supply, but, by treatment with lime before delivery, its hardness is reduced to about one-fourth of its original amount. The hardness of the river water-supplies is similarly reducible. This mode of softening is by far the most economical, for it entails only about one-eightieth of the expense which devolves upon the private consumer in the shape of additional soap required for washing.

Lastly, Table L. records the averages, for the past year, of each determination referred to above, and thus gives a general survey of the thermal and chemical characters of the water delivered by each Company during the past year.

In the following Table are recorded the results of my observations respecting the freedom from turbidity or otherwise of the various waters, and, for the purpose of comparison, the results of my first observations in 1868 are also included:—

Companies or Local Authorities.	Number of occasions when clear and transparent.		Number of occasions when slightly turbid.		Number of occasions when turbid.		Number of occasions when very turbid.	
Thames.	1868.	1891.	1868.	1891.	1868.	1891.	1868.	1891.
Chelsea	7	12	2	0	1	0	2	0
West Middlesex	12	12	0	0	0	0	0	0
Southwark	1	11	5	1	4	0	2	0
Grand Junction	9	11	2	1	1	0	0	0
Lambeth	6	12	1	0	2	0	3	0
Lea.								
New River	10	12	2	0	0	0	0	0
East London	3	12	8	0	1	0	0	0
Deep Wells.								
Kent	8	12	3	0	1	0	0	0
Colne Valley	–	11	–	1	–	0	–	0
Tottenham Local Board of Health	–	11	–	1	–	0	–	0
East London	–	12	–	0	–	0	–	0

This Table strikingly shows the great improvement which the Water Companies have effected in filtration since I first began these examinations for turbidity in 1868. In that year, seven samples were so turbid as to be highly repulsive in appearance, nine samples were turbid, and no less than 20 slightly turbid, whereas during the year just closed only two samples of river water were slightly turbid or opalescent from suspended clay, and two of deep-well water slightly turbid from suspended particles of rust of iron.

The bacteriological investigation of the waters, by the method of gelatine-plate culture devised by Dr. Koch, gave the results contained in the following table. The samples were collected in carefully sterilized vessels simultaneously with those taken for chemical analysis. They were then conveyed, with the least possible loss of time, to my laboratory, and immediately submitted to cultivation. Nevertheless about four hours elapsed between the time of taking the samples and the commencement of the cultivations; but several duplicate trials, in which the cultivations were commenced immediately after the samples were drawn from the Companies' mains, showed that the short interval of time occupied in transporting the samples to my laboratory did not materially interfere with the result. Moreover, in the streets of London and in the midst of a crowd of spectators, it is difficult to commence the cultivations without risk of extraneous contamination by atmospheric spores.

NUMBER OF MICROBE COLONIES DEVELOPED FROM ONE CUBIC CENTIMETRE OF EACH WATER.

COMPANIES.	1891.												
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	MEAN.
Thames:													
Chelsea	264	144	278	90	78	—	60	—	88	86	410	—	166
West Middlesex	180	104	38	50	20	36	90	28	38	42	194	—	75
Southwark	2,088	356	56	26	26	—	104	26	70	58	—	—	312
Grand Junction	1,029	220	470	102	64	—	34	46	26	98	802	—	289
Lambeth	595	284	160	1,126	404	494	58	42	24	94	642	—	358
Lea:													
New River	68	74	230	70	30	16	38	16	12	22	64	—	58
East London	93	248	214	122	48	—	54	208	58	56	208	—	131
Deep Well:													
Kent	27	20	116	134	116	—	34	110	12	81	46	—	69

In consequence of an accident to the incubator the cultivations of the December samples were lost.

It is important that these observations should not be invested with a meaning which they are not intended to convey. The vast majority of microbes found in potable waters are, as far as is known, entirely harmless, and although pathogenic bacteria have been discovered amongst them it has only been on rare occasions. They have never been observed in any water supplied to London, but it must not on this account be concluded that they are never present. In the first place, the samples have been taken only at long intervals, secondly, a very small volume only (half a cubic centimetre) is submitted to examination, and thirdly, several kinds of pathogenic organisms can be cultivated only in the bodies of animals, and are therefore undiscoverable by Koch's gelatine-plate process. A glass of water might

contain two or three typhoid germs, and yet it would only be by the merest chance that one of them would be included in the five-hundredth part of the glassful (half a cubic centimetre) taken for bacteriological examination. What then, it may be asked, is the use of these examinations? In the present state of our knowledge, simply and solely this,—they are a quantitative and exceedingly delicate test for the efficiency of the filtration natural or artificial to which the water has been subjected, and they prove, in the case of the river waters delivered in London, how very efficient, as a rule, is the sand filtration as carried out by the Water Companies, for the removal of microbes and their germs. Thus, in March 1891, the Thames water at the intakes of the Water Companies developed no less than 33,238 colonies of microbes per cubic centimetre, whilst the West Middlesex Company was delivering filtered water at the same time which developed only 56 colonies from the same volume, having thus removed no less than 99·83 per cent. of the germs in the original water. This is no doubt an extreme case, but the least efficiently filtered water delivered on that occasion (by the Lambeth Company) developed only 414 colonies per cubic centimetre, thus showing a reduction of 98·76 per cent. In this enormous reduction there is obviously a considerable, though by no means absolute, guarantee that pathogenic organisms, if present, would disappear with the crowd. Nevertheless, it is only by the rejection, for dietetic purposes, of water polluted by excrementitious matters that immunity from water-borne zymotic poisons can be secured.

I am, &c.

E. Frankland.

The Registrar General, &c., &c.
Somerset House, W.C.

Table A.

Temperature (in Centigrade degrees) of the Metropolitan Waters, as delivered from the different Companies' Mains.

	Companies or Local Authorities.	1891. Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Mean.
Inner Circle.	Thames.	°	°	°	°	°	°	°	°	°	°	°	°	°
	Chelsea	2·7	5·5	5·7	8·4	12·0	15·9	18·2	17·7	15·8	12·4	9·0	8·2	11·0
	West Middlesex	1·6	6·2	6·0	9·5	9·8	17·8	19·5	18·3	16·7	12·6	8·6	8·4	11·3
	Southwark	2·8	5·7	5·2	9·4	12·1	16·7	18·2	17·2	16·0	12·1	8·8	7·5	11·0
	Grand Junction	1·6	6·4	5·6	11·2	14·1	18·5	20·3	18·3	16·7	12·7	8·8	9·0	11·9
	Lambeth	1·8	5·8	5·5	9·7	12·4	17·2	18·4	18·0	16·1	11·9	8·5	8·2	11·1
	Lea.													
	New River	2·7	6·1	5·7	10·4	12·2	16·2	18·2	16·8	15·7	11·9	8·7	7·8	11·0
	East London	2·1	6·0	5·5	10·7	12·3	16·4	18·5	17·0	15·7	12·2	9·0	8·0	11·1
Outer Circle.	Deep Wells.													
	Kent	11·8	11·5	11·5	10·0	12·0	12·7	12·7	12·5	12·5	12·5	11·7	11·8	11·9
	Colne Valley	—	—	—	—	—	—	—	—	—	—	—	—	—
	Tottenham	—	—	—	—	—	—	—	—	—	—	—	—	—
	East London	—	—	—	—	—	—	—	—	—	—	—	—	—

Table B.

Weight of Solid Matters in 100,000 parts of the Waters.

	Companies or Local Authorities.	1891. Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Mean.
Inner Circle.	Thames.													
	Chelsea	30·10	31·14	29·92	29·70	25·38	25·68	24·00	24·24	22·00	26·74	30·90	32·34	27·68
	West Middlesex	31·80	31·84	30·10	30·04	25·24	27·00	24·56	23·44	24·20	27·82	31·84	29·86	28·15
	Southwark	31·90	33·48	29·58	30·04	27·04	28·00	26·20	25·20	27·20	30·50	33·66	29·54	29·36
	Grand Junction	32·10	32·51	27·96	29·40	26·24	27·34	24·90	24·34	25·82	27·74	32·40	30·20	28·41
	Lambeth	31·60	33·74	29·10	28·86	26·84	28·00	25·56	25·2	26·22	28·26	33·00	30·80	28·93
	Lea.													
	New River	32·40	32·94	28·50	27·54	27·22	27·06	28·40	27·90	27·70	30·42	33·14	32·04	29·61
	East London	39·30	38·06	32·24	31·08	27·82	31·94	28·00	26·00	28·90	33·44	38·00	37·34	32·68
Outer Circle.	Deep Wells.													
	Kent	42·70	41·84	41·80	40·74	44·02	41·74	43·30	43·36	40·84	39·70	39·36	41·20	41·72
	Colne Valley	16·18	20·94	21·48	17·72	14·94	17·76	18·40	16·30	19·48	17·64	21·36	24·96	18·93
	Tottenham	44·32	41·98	40·46	40·40	44·70	40·84	43·80	44·80	41·52	44·90	41·30	46·28	42·94
	East London	28·14	29·70	27·40	29·30	27·70	27·64	27·66	27·96	27·72	28·48	28·66	28·60	28·25

Table C.

Organic Carbon in 100,000 parts of the Waters.

	Companies or Local Authorities.	1891. Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Mean.
Inner Circle.	Thames.													
	Chelsea	·140	·280	·177	·193	·147	·177	·124	·119	·139	·214	·339	·163	·184
	West Middlesex	·137	·351	·150	·170	·141	·190	·120	·127	·180	·416	·279	·325	·215
	Southwark	·135	·238	·152	·155	·150	·212	·134	·131	·214	·452	·240	·322	·211
	Grand Junction	·121	*·444	·179	·173	·145	·179	·133	·138	·222	·363	·232	·338	·222
	Lambeth	·153	·276	·162	·176	·162	·182	·141	·138	·252	·472	·198	·309	·218
	Lea.													
	New River	·050	·194	·056	·067	·067	·089	·070	·058	·081	·103	·163	·202	·100
	East London	·133	·264	·135	·139	·132	·180	·126	·120	·204	·271	·309	·220	·186
Outer Circle.	Deep Wells.													
	Kent	·047	·040	·033	·044	·037	·047	·047	·044	·032	·031	·038	·031	·039
	Colne Valley	·056	·105	·298	·072	·051	·061	·058	·063	·067	·076	·097	·080	·090
	Tottenham	·079	·078	·071	·056	·067	·057	·073	·087	·065	·081	·071	·073	·072
	East London	·114	·091	·112	·068	·116	·116	·113	·045	·081	·052	·084	·043	·086

* The above is the mean of three separate samples which yielded the following results :—(*a*) ·553, (*b*) ·493, (*c*) ·285.

Table D.

Organic Nitrogen in 100,000 parts of the Waters.

	Companies or Local Authorities.	1891.												
		Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Mean.
Inner Circle.	Thames.													
	Chelsea	·023	·038	·040	·023	·014	·028	·022	·022	·022	·034	·050	·042	·030
	West Middlesex	·038	·040	·018	·045	·018	·026	·021	·023	·024	·049	·028	·051	·032
	Southwark	·040	·030	·016	·025	·019	·054	·022	·031	·029	·052	·036	·052	·034
	Grand Junction	·032	*·072	·026	·026	·019	·033	·022	·022	·028	·051	·037	·047	·035
	Lambeth	·037	·029	·024	·04	·019	·030	·020	·020	·034	·048	·024	·048	·031
	Lea.													
	New River	·014	·024	·008	·013	·010	·013	·015	·011	·016	·019	·035	·039	·018
	East London	·024	·040	·024	·020	·017	·023	·021	·023	·029	·039	·031	·035	·027
	Deep Wells.													
	Kent	·010	·009	·005	·008	·008	·009	·009	·009	·009	·009	·008	·009	·009
Outer Circle.	Colne Valley	·015	·018	·040	·024	·016	·015	·019	·014	·015	·016	·018	·019	·019
	Tottenham	·024	·025	·016	·017	·016	·019	·020	·019	·012	·014	·021	·017	·018
	East London	·019	·010	·020	·015	·013	·020	·012	·012	·013	·009	·009	·010	·013

* The above is the mean of three separate samples which yielded the following results:—(*a*) ·087, (*b*) ·090, (*c*) ·039.

Table E.

Proportional Amount of Organic Elements, that in the Kent Company's Water during the Nine Years ending December 1876 being taken as 1.

	Companies or Local Authorities.	1891.												
		Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Mean.
Inner Circle.	Thames.													
	Chelsea	2·8	5·4	3·7	3·7	2·7	3·5	2·5	2·4	2·7	4·2	6·6	3·5	3·6
	West Middlesex	3·0	6·6	2·8	3·6	2·7	3·8	2·4	2·5	3·5	7·9	5·9	6·4	4·2
	Southwark	3·0	4·5	2·8	3·1	2·9	4·5	2·6	2·7	4·1	8·5	4·7	6·3	4·1
	Grand Junction	2·6	8·7	3·5	3·4	2·8	3·6	2·6	2·7	4·2	7·0	4·6	6·5	4·4
	Lambeth	3·2	5·2	3·2	3·7	3·1	3·6	2·7	2·7	4·8	8·8	3·8	6·1	4·2
	Lea.													
	New River	1·1	3·7	1·1	1·4	1·3	1·7	1·4	1·2	1·6	2·1	3·4	4·1	2·0
	East London	2·9	5·2	2·7	2·7	2·5	3·4	2·5	2·4	3·9	5·3	5·8	4·3	3·6
	Deep Wells.													
	Kent	1·0	0·8	0·6	0·9	0·8	0·9	0·9	0·9	0·7	0·7	0·8	0·8	0·8
Outer Circle.	Colne Valley	1·2	2·1	5·7	1·6	1·1	1·3	1·3	1·3	1·4	1·6	1·9	1·7	1·9
	Tottenham	1·7	1·7	1·5	1·2	1·4	1·5	1·6	1·8	1·3	1·6	1·6	1·5	1·5
	East London	2·2	1·7	2·2	1·4	2·2	2·3	2·1	1·0	1·6	1·0	1·6	0·9	1·7

Table F.

Ammonia in 100,000 parts of the Waters.

	Companies or Local Authorities.	1891.												
		Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Mean.
Inner Circle.	Thames.													
	Chelsea	0	0	0	0	0	0	0	0	0	0	0	0	0
	West Middlesex	0	0	0	0	0	0	0	0	0	0	0	0	0
	Southwark	0	0	0	0	0	0	0	0	0	0	0	0	0
	Grand Junction	0	·002	0	0	0	0	0	0	0	0	0	0	·000
	Lambeth	0	0	0	0	0	0	0	0	0	0	0	0	0
	Lea.													
	New River	0	0	0	0	0	0	0	0	0	0	0	0	0
	East London	0	0	0	0	0	0	0	0	0	0	0	0	0
	Deep Wells.													
	Kent	0	0	0	0	0	0	0	0	0	0	0	0	0
Outer Circle.	Colne Valley	0	0	·003	·045	0	·008	·026	0	0	0	0	0	·007
	Tottenham	·035	·040	·060	·065	·063	·070	·040	·010	·030	·030	·017	·027	·041
	East London	0	0	0	0	0	0	0	·002	0	0	0	0	·000

Table G.

Nitrogen as Nitrates and Nitrites in 100,000 parts of the Waters.

Companies or Local Authorities.	1891.												
	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Mean.
Thames.													
Chelsea	·245	·280	·236	·194	·137	·127	·117	·136	·107	·135	·191	·253	·180
West Middlesex	·258	·279	·254	·186	·132	·144	·117	·121	·146	·160	·237	·224	·188
Southwark	·227	·266	·225	·178	·119	·117	·126	·118	·166	·163	·236	·197	·178
Grand Junction	·276	·283	·211	·182	·134	·124	·128	·122	·149	·119	·230	·215	·181
Lambeth	·266	·283	·237	·177	·143	·162	·144	·112	·162	·144	·259	·256	·196
Lea.													
New River	·200	·327	·227	·215	·157	·162	·171	·161	·154	·208	·334	·306	·219
East London	·309	·424	·285	·198	·139	·182	·141	·145	·155	·226	·261	·311	·231
Deep Wells.													
Kent	·452	·486	·596	·462	·483	·454	·481	·495	·412	·444	·447	·446	·471
Colne Valley	·362	·422	·393	·448	·385	·410	·413	·410	·380	·416	·440	·490	·414
Tottenham	·321	·114	0	0	·215	0	·232	·357	·039	·232	·080	·337	·161
East London	·011	trace	trace	0	·006	0	0	trace	trace	trace	·014	trace	·003

Table H.

Total combined Nitrogen in 100,000 parts of the Waters.

Companies or Local Authorities.	1891.												
	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Mean.
Thames.													
Chelsea	·268	·318	·276	·217	·151	·155	·139	·158	·129	·169	·241	·295	·210
West Middlesex	·296	·319	·272	·231	·150	·170	·138	·144	·170	·209	·265	·275	·220
Southwark	·267	·296	·241	·203	·138	·171	·148	·149	·195	·215	·272	·249	·212
Grand Junction	·308	·356	·237	·208	·153	·157	·150	·144	·177	·170	·267	·262	·216
Lambeth	·303	·312	·261	·220	·167	·192	·164	·132	·196	·192	·283	·304	·227
Lea.													
New River	·214	·351	·235	·228	·167	·175	·186	·172	·170	·227	·369	·345	·237
East London	·333	·464	·309	·218	·156	·205	·162	·168	·184	·265	·292	·346	·258
Deep Wells.													
Kent	·462	·495	·601	·470	·491	·463	·490	·504	·421	·453	·455	·455	·480
Colne Valley	·377	·440	·435	·509	·401	·432	·453	·424	·395	·432	·458	·509	·439
Tottenham	·374	·172	·065	·071	·283	·077	·285	·384	·076	·271	·115	·376	·213
East London	·030	·010	·020	·015	·019	·020	·012	·014	·013	·009	·023	·010	·016

Table I.

Chlorine in 100,000 parts of the Waters.

Companies or Local Authorities.	1891.												
	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Mean.
Thames.													
Chelsea	1·9	1·9	1·8	1·9	1·8	1·9	1·9	1·8	1·8	1·8	1·8	1·7	1·8
West Middlesex	1·9	1·9	1·8	1·9	1·7	1·9	1·8	1·7	1·8	1·7	1·8	1·7	1·8
Southwark	1·9	1·9	1·8	1·9	1·7	1·8	1·8	1·7	1·8	1·7	1·8	1·8	1·8
Grand Junction	1·9	1·9	1·9	1·9	1·8	1·9	1·8	1·8	1·9	1·7	1·8	1·8	1·8
Lambeth	1·9	1·9	1·9	1·9	1·8	1·9	1·8	1·8	1·9	1·7	1·8	1·9	1·9
Lea.													
New River	1·8	1·9	1·8	1·7	1·7	1·8	1·8	1·7	1·8	1·8	1·8	1·8	1·8
East London	2·1	2·1	2·1	2·0	1·9	2·1	1·9	1·8	2·0	2·1	2·1	2·1	2·0
Deep Wells.													
Kent	2·5	2·4	2·5	2·3	2·4	2·5	2·5	2·4	2·5	2·4	2·4	2·4	2·4
Colne Valley	1·9	2·2	2·1	2·1	2·0	2·1	2·1	2·1	2·0	2·1	2·2	2·2	2·1
Tottenham	3·0	3·1	2·8	2·8	3·1	2·9	3·1	3·0	2·9	3·2	3·1	3·3	3·0
East London	2·1	2·1	2·0	2·1	2·2	2·1	2·1	2·0	2·0	2·1	2·1	2·1	2·1

Table K.

Degrees of Hardness (1 deg. = 1 part of carbonate of lime, or its equivalent,) in 100,000 parts of the Waters.

	Companies or Local Authorities.	1891.												
		Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Mean.
Inner Circle.	Thames.													
	Chelsea	22·1	21·5	23·0	20·9	19·4	17·7	17·1	17·1	16·3	18·6	21·8	21·8	19·8
	West Middlesex	22·4	21·2	22·4	21·2	19·4	18·6	18·0	17·1	17·4	18·9	23·6	20·6	20·1
	Southwark	22·4	22·1	22·4	21·2	20·9	19·7	18·6	18·0	19·1	20·6	23·9	20·6	20·8
	Grand Junction	22·4	20·3	21·2	21·5	19·1	19·4	18·0	18·0	18·6	19·1	23·6	20·6	20·2
	Lambeth	22·4	22·4	22·1	20·9	19·7	19·4	18·0	17·7	18·9	18·9	24·2	20·9	20·5
	Lea.													
	New River	23·0	22·4	22·1	20·3	20·3	19·4	18·9	19·4	19·7	20·9	24·2	22·4	21·1
	East London	26·9	25·1	23·6	21·3	20·9	21·8	21·5	18·3	20·0	21·2	24·5	24·5	22·5
	Deep Wells.													
Outer Circle.	Kent	29·4	28·1	31·6	29·7	30·0	29·7	29·7	29·7	29·0	27·5	28·4	29·7	29·4
	Colne Valley	6·9	10·0	10·4	8·4	6·4	7·1	8·4	7·1	9·7	8·1	10·8	13·2	8·9
	Tottenham	23·6	23·0	23·6	23·9	24·5	23·3	22·7	26·6	23·6	26·3	25·1	26·4	24·4
	East London	16·6	17·7	18·9	20·9	18·9	19·7	17·7	18·6	18·6	20·0	19·1	20·6	18·9

Table L.

Averages for 1891.

The numbers in the Table relate to 100,000 parts of each Water.

	Companies or Local Authorities.	Temperature in Centigrade Degrees.	Total Solid Matters.	Organic Carbon.	Organic Nitrogen.	Ammonia.	Nitrogen, as Nitrates and Nitrites.	Total combined Nitrogen.	Chlorine.	Total Hardness.	Proportional Amount of Organic Elements that in the Kent Company's Water during the 9 years ending Dec. 1876 being taken as 1.
		°									
Inner Circle.	Thames.										
	Chelsea	11·0	27·68	·184	·030	0	·180	·210	1·8	19·8	3·6
	West Middlesex	11·3	28·15	·215	·032	0	·188	·220	1·8	20·1	4·2
	Southwark	11·0	29·36	·211	·034	0	·178	·212	1·8	20·8	4·1
	Grand Junction	11·9	28·41	·222	·035	0	·181	·216	1·8	20·2	4·4
	Lambeth	11·1	28·93	·218	·031	0	·196	·227	1·9	20·5	4·2
	Lea.										
	New River	11·0	29·61	·100	·018	0	·219	·237	1·8	21·1	2·0
	East London	11·1	32·68	·186	·027	0	·231	·258	2·0	22·5	3·6
	Deep Wells.										
Outer Circle.	Kent	11·9	41·72	·039	·009	0	·471	·480	2·4	29·4	0·8
	Colne Valley	—	18·93	·090	·019	·007	·414	·439	2·1	8·9	1·9
	Tottenham	—	42·94	·072	·018	·041	·161	·213	3·0	24·4	1·5
	East London	—	28·25	·086	·013	0	·003	·016	2·1	18·9	1·7

Note.—The numbers in these tables may be converted into grains per imperial gallon by multiplying them by 7, and then moving the decimal point one place to the left.

WELLCOME LIBRARY INSTITUTE

Fires in London during the Year 1891.

Captain J. Sexton Simmonds, Chief Officer of the Metropolitan Fire Brigade, reported to the London County Council that the number of fires attended during 1891 was 2892, exceeding by 337 the number in the preceding year, and by 691 the average in the ten years 1881–90. According to this report the lives of 268 persons were seriously endangered, and 61 of these were lost. The numbers of lives lost by fires in London in the four preceding years were 55, 48, 44, and 61 respectively.

The staff of the Metropolitan Fire Brigade at the end of the year was distributed at 55 land engine, 4 floating, 51 hose cart, and 179 escape stations. The number of fire engines at these stations was 151, corresponding with the number in the previous year; 9 were floating steam engines, 47 land steam engines, and 95 manual engines. The authorised strength of the brigade was 707 of all ranks, including the chief officer, second officer, and the superintendents. The cases of injury occurring in the brigade during the year were 109, against numbers ranging from 142 to 90 in the seven previous years.

Number of **Fires** and of **False Alarms** attended during the Eleven Years 1881–91, and in each Month of 1891.

Years and Months.	Total Calls.	False Alarms and Chimneys.	Fires.				
			Serious.	Slight.	Total.	Per-centages.	
						Serious.	Slight.
1881	2376	385	167	1824	1991	8·4	91·6
1882	2341	415	164	1762	1926	8·5	91·5
1883	2630	486	184	1960	2144	8·6	91·4
1884	2806	517	194	2095	2289	8·5	91·5
1885	2851	581	160	2110	2270	7·0	93·0
1886	2853	704	151	1998	2149	7·0	93·0
1887	3059	696	175	2188	2363	7·4	92·6
1888	2693	705	121	1867	1988	6·1	93·9
1889	3131	793	153	2185	2338	6·5	93·5
1890	3546	991	153	2402	2555	6·0	94·0
1891	4164	1,272	193	2699	2892	6·7	93·3
1891. January	391	98	16	277	293	5·5	94·5
February	292	73	21	199	220	9·5	90·5
March	359	105	17	237	254	6·7	93·3
April	338	109	19	210	229	8·3	91·7
May	322	97	16	209	225	7·1	92·9
June	363	119	17	227	244	7·0	93·0
July	333	126	14	193	207	6·8	93·2
August	322	112	14	196	210	6·7	93·3
September	354	114	12	228	240	5·0	95·0
October	308	101	11	196	207	5·3	94·7
November	366	113	20	233	253	7·9	92·1
December	416	106	16	294	310	5·2	94·8

LONDON: Printed by EYRE and SPOTTISWOODE,
Printers to the Queen's most Excellent Majesty.
For Her Majesty's Stationery Office.
[23.—575.—3/92.]